



Cornell University

Announcements

General Information



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1973-74

Cornell University Announcements

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1973-74

Cornell Academic Calendar

Registration, new students
Registration, continuing and rejoining students
Fall term instruction begins
Instruction suspended for Thanksgiving recess, 1:10 p.m.
Instruction resumes
Fall term instruction ends, 1:10 p.m.
First day of final examinations
Last day of final examinations
Registration, new and rejoining students
Registration, continuing students
Spring term instruction begins
Instruction suspended, 1:10 p.m.
Instruction resumes
Spring term instruction ends, 1:10 p.m.
First day of final examinations
Last day of final examinations
Commencement Day

Thursday, August 30

Friday, August 31

Monday, September 3

Wednesday, November 21

Monday, November 26

Saturday, December 8

Thursday, December 13

Saturday, December 22

Thursday, January 24

Friday, January 25

Monday, January 28

Saturday, April 6

Monday, April 15

Saturday, May 11

Friday, May 17

Monday, May 27

Monday, June 3

The dates shown in the Academic Calendar are subject to change at any time by official action of Cornell University.

In enacting this calendar, the University Senate has scheduled classes on religious holidays. It is the intent of Senate legislation that students missing classes due to the observance of religious holidays be given ample opportunity to make up work.

General Information

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The courses and curricula described in this *Announcement*, and the teaching personnel listed herein, are subject to change at any time by official action of Cornell University.



Cornell University

Cornell University is a coeducational institution made up of undergraduate, graduate, and professional units. Its nearly 16,000 students include more than 10,500 undergraduate students and about 5,000 graduate students.

The stature of Cornell is not a product of its size, however, but lies rather in the traditions, objectives, and commitments of the University and its people as initiated by the founders, Ezra Cornell and Andrew Dickson White. Ezra Cornell was not born to wealth and his formal education was meager. He felt nonetheless that to support education was the best means of contributing something to posterity and the noblest use to which he could put his large amassed fortune. White on the other hand was well educated and the product of an older culture. In 1864 the two men, fellow senators in the state legislature at Albany, conceived a plan to combine Ezra Cornell's resources with the proceeds from the sale of public land awarded to New York State under the federal land-grant college act. Together they won the state legislature's approval and together they built the University. It was as much from their differences of character as from their common interest that the University was shaped. The practical Cornell would have established a school to train young men for agriculture and industry. The schol-

arly White would have started "a nucleus around which liberally minded men of learning . . . could cluster, a center from which ideas and men shall go forth to bless the nation. . . ."

As the product of both men's ideas, Cornell University became more than either had envisioned. It became a unique institution responsive to the needs of the nation. Instead of pursuing conventional academic ideas, Cornell and White chose to establish a university that would teach any subject to any intellectually qualified person regardless of religion, sex, or color. Their new university also answered the three most pressing demands of the period: liberalization of the humanities curriculum, promotion of research, and provision for advanced training in agriculture and engineering.

Today, along with the pursuit of excellence in traditional subjects at Cornell, there is an acute awareness of current problems. Students and faculty in many segments of the University are engaged in exploring such problems, and their efforts take shape in new fields, committees, programs, and centers. There is, for example, a Peace Studies Program, a Program on Policies for Science and Technology in Developing Nations, a Rural Development Committee, and an International Population Program. There is an interdisciplinary Program on Science, Technology, and Society, and a variety of programs in international agriculture, law, and medicine. The Africana Studies and Research Center

Cornell alumni around the world know "the tower" as the University symbol.

is concerned with such topics as Pan-Africanism and Contemporary Black Ideologies, and Men and Movements in the Black Urban Ghetto.

Two units of the University have recently changed their names to reflect more accurately the expanded, more contemporary aspects of their academic missions. The New York State College of Agriculture became the New York State College of Agriculture and Life Sciences, and the College of Home Economics, also part of the State University of New York system, became the College of Human Ecology.

The recently established Center for the Improvement of Undergraduate Education has done much to stimulate interest in innovative educational programs and new teaching methods. The University Senate too encourages programs of study dealing with contemporary problems, and new directions in the development of educational innovation.

At Cornell, the university experience is enhanced by the physical situation of the campus. Except for the Medical College, the Graduate School of Medical Sciences, and the Cornell University-New York Hospital School of Nursing, which are located in New York City, Cornell is situated on hills overlooking the city of Ithaca in the Finger Lakes Region of New York State. Within a thirty-minute drive, more or less, a student can hike in autumn and spring, ski in winter, and water ski or sail on Cayuga Lake. The campus, covering about 740 acres and considered one of the most beautiful in the United States, is cut through on the north and south by deep gorges enhanced by streams and water falls and laced with trails. At the head of Fall Creek Gorge is Beebe Lake, where there is canoeing in warm weather. On campus, the hockey rink at Lynah Hall provides facilities for skating. There are also two competition-sized indoor pools, a championship golf course, intramural and varsity playing fields, squash courts, crew tanks, and gymnasiums for men and women. Football, soccer, and other sports are played on

the artificial turf of Schoellkopf Field. These facilities for athletics, plus the many concerts, plays, lectures, movies, and other cultural activities, provide a wealth of activities for students at the University. Participation in determining the flavor of campus life is also possible through the University Senate, made up of elected representatives of the student body, faculty, administration, and staff.

Although students may ask for guidance when needed from faculty advisers or dormitory and college counselors, they are regarded as University students and are generally expected to be more self-reliant than students in smaller schools. As a rule, each individual should be able to find his or her own place in this cosmopolitan, diversified, academic community. Thus today's Cornell students are on their own, as free to think for themselves outside the classroom as they are inside.

Choosing a College or School

The central and largest unit of Cornell is the College of Arts and Sciences. A liberal college, it devotes itself to those subjects which enable man to understand himself and his world—the humanities, the physical sciences, and the social studies. Every undergraduate takes some of its courses.

High school graduates are admitted to the New York State College of Agriculture and Life Sciences; the New York State College of Human Ecology; the New York State School of Industrial and Labor Relations; the College of Architecture, Art, and Planning; the College of Engineering; the College of Arts and Sciences; or the School of Hotel Administration.

Students may be admitted to certain Cornell divisions only after some previous college education. The Cornell University-New York Hospital School of Nursing

requires a minimum of two years of undergraduate preparation; the New York State Veterinary College requires three years of undergraduate preparation; the Law School requires a baccalaureate degree; the Graduate School of Business and Public Administration requires a baccalaureate degree except in a few specific cases; and the Graduate School, the Medical College, the Graduate School of Medical Sciences, and the Graduate School of Nutrition all require a baccalaureate degree.

Students may also register in the Division of Summer Session and Extramural Courses, and the Division of Unclassified Students (see pp. 27–29).

Within this broad framework there are many possibilities. There are centers of study and programs which enable all students to obtain basic instruction and specialization in their chosen fields.

A prospective student frequently and naturally thinks in terms of specific courses, such as chemistry, design, or bacteriology rather than in terms of a broad curriculum such as arts and sciences, architecture, or agriculture. These students will find most helpful the section, Subjects of Study, on p. 61 of this *Announcement*. It lists the schools or colleges where subjects are taught.

Having consulted this *General Information Announcement*, the student will probably need more specific information, and this may be obtained by writing for the *Announcement* of the school, college, or division of special interest. (See list at the back of this *Announcement*.)

The Colleges and Schools

"An institution where any person can find instruction in any study." The high ideal of the founders of Cornell is adhered to now as it was in 1865 when Andrew Dickson White and Ezra Cornell founded Cornell University.

"Any study" is much more complex today than either of them could have

imagined. As an independent Ivy League institution and the land-grant University of the State of New York, Cornell has fifteen colleges and schools, of which four are state supported and eleven endowed. Hundreds of subjects of study and programs of study are, therefore, available to the student. The student enrolled at Cornell may have a specialty and then supplement it with courses from other schools. For example, a student of anthropology in the College of Arts and Sciences may supplement his information by taking courses in the Division of Biological Sciences, the Graduate School of Nutrition, or the Veterinary College. The same would be true of a medical student who, interested in mastering the intricacies of the equipment he must use, might take courses in the College of Engineering. This flexibility affords the student a broader view of his subject and enables him, ultimately, to make a greater contribution in an ever-changing world.

Because of the size and diversity of the University, this *General Information Announcement* is not intended to provide information in great detail. Rather, it is designed to give the prospective student a broad perspective of the "Cornell idea." Each of Cornell's academic units publishes a detailed *Announcement* of requirements, courses, and special programs. The individual *Announcements* are listed at the end of this publication.

Requirements listed with some of the schools and colleges in this section are for subjects and tests. Further general admission requirements and information may be found in the section on Admissions and Finances, p. 36.

New York State College of Agriculture and Life Sciences

At the undergraduate level, the College of Agriculture and Life Sciences offers a flexible four-year program which leads to a Cornell University Bachelor of Science degree. The student may follow a curriculum in a specialized area sug-

gested by his faculty adviser, or he may select, with the help of an adviser, courses within the broad requirements that will best prepare him for his personal objectives. Course selections are made from within the College of Agriculture and Life Sciences as well as from the offerings of other divisions of the University.

Specializations are available in agricultural economics, agricultural education, agricultural engineering, agricultural sciences, agronomy, animal science, biological sciences, communication arts, cooperative extension, entomology, floriculture and ornamental horticulture, food science, general agriculture, natural resources (conservation), plant breeding and biometry, plant pathology, pomology, poultry science, rural sociology, science education, and vegetable crops.

Students in the College prepare for careers in business, industry, government, education, and research, as well as in commercial agriculture. Many graduates of the College continue their studies in graduate or professional schools.

Joint programs with the College of Engineering, the Veterinary College, and the Graduate School of Business and Public Administration make it possible for academically qualified students to obtain both a baccalaureate and a professional degree in minimum time.

The joint program between the College of Agriculture and Life Sciences and the Graduate School of Business and Public Administration allows a student admitted to the program in the third year to complete the requirements for the B.S. degree at the end of the fourth year, and for the degree of Master of Business Administration or the degree of Master of Public Administration at the end of the fifth year.

In somewhat similar manner, students who do preveterinary work in the College of Agriculture and Life Sciences and are accepted by Cornell's Veterinary College sometimes qualify for degrees from both colleges. Some students receive these

degrees after seven years. This is usually accomplished by spending three years in Agriculture followed by four years in the Veterinary College, including a combined registration during the semester in which the requirements for the B.S. degree are completed.

Subject and Test Requirements for Admission

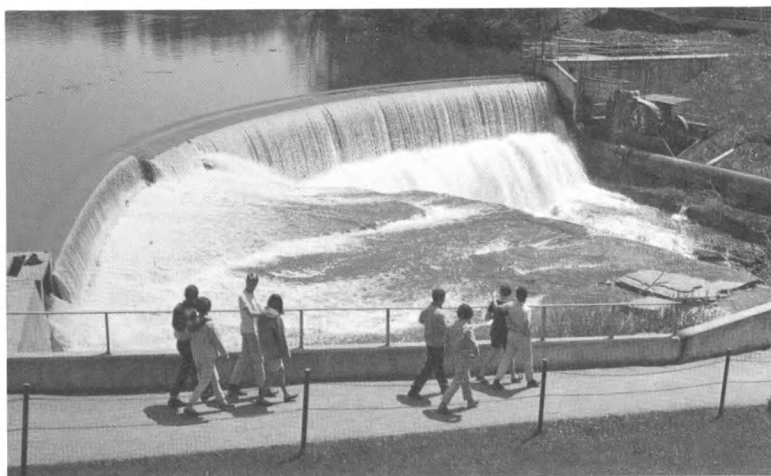
Agriculture and Life Sciences, B.S., four years. Sixteen units representing completion of a secondary school course, which must include four units of English and three units of college preparatory mathematics, are required. It is strongly recommended that high school students carry enough courses to offer eighteen entrance units and that these include biology, chemistry, physics, and at least three and one-half units in mathematics.

The Scholastic Aptitude Test of the College Entrance Examination Board is also required. Applicants are encouraged to complete College Board Achievement Tests in two of the following: English composition, mathematics, or science. The results of the American College Testing Program may be substituted for the college boards.

The College also participates in the Early Decision Program and will consider Early Admissions requests on an individual basis.

Agricultural Engineering, B.S. Applicants for this professional engineering program must satisfy the entrance requirements of both the College of Agriculture and Life Sciences (above) and the College of Engineering (p. 17). For the first three years the student is registered in the College of Agriculture and Life Sciences, and for the fourth year in the College of Engineering. The student seeking the degree Master of Engineering (agricultural) will also enroll for the

Two seasons on campus: top, a winter afternoon on the Arts Quad, with McGraw Tower silhouetted in background; and bottom, the walk past Tripphammer Falls.



fifth year in the College of Engineering.

At the graduate level, the various departments of the College offer advanced instruction leading to the degrees of Master of Arts, Master of Arts in Teaching, Master of Professional Studies (agriculture), Master of Professional Studies (Communication Arts), Master of Science, Doctor of Education, and Doctor of Philosophy. Detailed information may be obtained from the Office of the Dean of the Graduate School.

Special adult programs are offered for persons seeking employment in specialized areas appropriate to the College. These are college-level programs but do not in themselves lead to a degree.

Descriptions of undergraduate and graduate courses and other information about the College may be found in the *Announcement of the College of Agriculture and Life Sciences*. Inquiries about the undergraduate program may be addressed to Director of Admissions, College of Agriculture and Life Sciences, 195 Roberts Hall, Cornell University, Ithaca, New York 14850.

College of Architecture, Art, and Planning

The College of Architecture, Art, and Planning offers undergraduate instruction leading to degrees in the fields of architecture and the practice of art. At the graduate level, instruction is given in the history of architecture and urban development, architecture, urban and regional design, architectural sciences, city and regional planning, and art.

The course of study leading to the degree of Bachelor of Architecture covers five years. It includes training in the basic skills and disciplines needed by the architect for professional competence in his field, together with courses planned to stimulate his creative imagination and to broaden his knowledge of the social and cultural values that must be reflected in contemporary architecture.

Students in the architectural program may, by special planning of their fifth-year program, be able to complete the

requirements for one of the graduate programs offered in the College in less than two years.

The first two years of the professional program are considered a basic introduction to the field. It is possible after this phase to depart from the professional program in order to develop a concentration in some area of the broader field without the intention of becoming a qualified practicing architect. Programs developing major concentrations in the third and fourth years, leading to the non-professional Bachelor of Fine Arts degree after the fourth year, are in History of Architecture and Urban Development and in Design Communications. Other programs are currently under development. A student attaining the B.F.A. degree can either terminate his studies or apply for a graduate program in his area of concentration.

Students who hold professional degrees in architecture from accredited institutions and who wish to undertake graduate study in architectural, urban, or regional design may apply for admission as candidates for the degree of Master of Architecture.

Students whose undergraduate programs emphasized history of art, architecture, planning, or related subjects and who wish to undertake graduate study in the history of architecture and urban development may apply for admission as candidates for the degree of Master of Arts or Doctor of Philosophy.

Students who hold degrees in architecture or engineering from accredited institutions and who wish to undertake graduate study in architectural sciences may apply for admission as candidates for the degree of Master of Science.

Graduate work in art is offered to students who have completed their undergraduate training in painting, sculpture, or graphic arts, and who have proved their capacity to do independent, creative work. Such students may apply for admission as candidates for the two-year course of study leading to the degree of Master of Fine Arts.

Applicants to the program leading to

the degree of Master of Regional Planning are expected to hold a bachelor's degree from a recognized institution. It may be an academic or professional degree in any field of study, and no preference for the area of undergraduate study is specified. Two years of graduate study are required for the degree.

The Ph.D. degree, with a major in city or regional planning, is also offered for professionally or academically qualified students interested in teaching, advanced scholarly research, or advanced professional work in planning.

Requests for further information should be addressed to the Office of the Dean, College of Architecture, Art, and Planning, Sibley Hall, Cornell University, Ithaca, New York 14850.

Subject and Test Requirements for Admission

All candidates for admission to the Departments of Architecture and Art must take the Scholastic Aptitude Test of the College Entrance Examination Board or the tests of the American College Testing Program.

Three years of a foreign language, ancient or modern, are required for entrance. Candidates who have fewer than three years of preparation in a foreign language, but who make satisfactory scores on the Achievement Test, will meet the requirement. When the required language credit is not offered for admission, a letter of explanation of this deficiency must be sent to the Committee on Admissions for its consideration. If the applicant is admitted, the language requirement must be satisfied before graduation. If an applicant plans to continue, in college, the study of a language he has already begun, the College advises him to take the College Entrance Examination Board Achievement Test in that language for placement in the proper course. For the purpose of making up the entrance requirement while in college, three college credits in a language are considered to be equivalent to one year of high school language credit.

Candidates for admission to the

Departments of Architecture and Art must demonstrate satisfactory knowledge of these subjects:

Architecture (B. Arch.), five years. Candidates for admission to the Department of Architecture must present sixteen units including four units of English, four units of mathematics, and three units of a foreign language (see above).

Mathematics must include intermediate algebra, plane geometry, and trigonometry, taken either as separate courses or included within comprehensive mathematics courses.

An acceptable course in physics, taken either in secondary school or in college, is required for graduation.

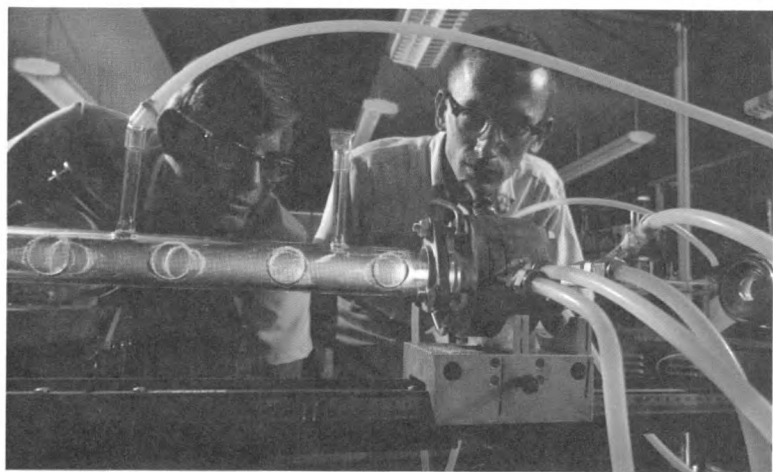
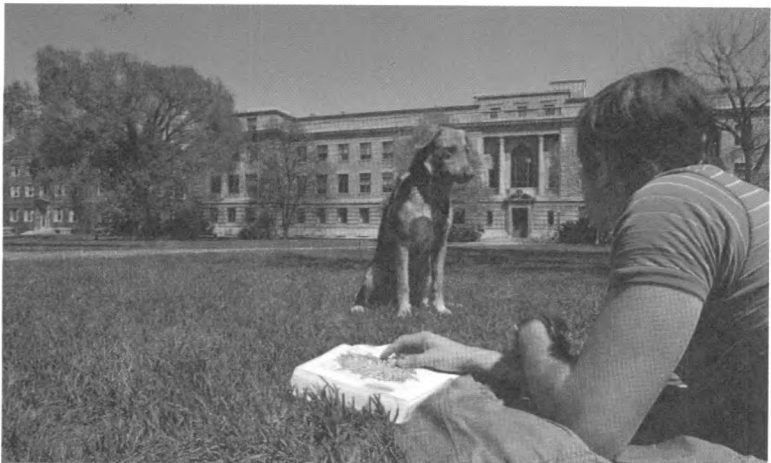
Art (B.F.A.), four years. Candidates for admission to the Department of Art must present sixteen units including four units of English, two units of college preparatory mathematics, and three units of a foreign language (see above). Remaining units should, in the main, consist of science and social studies (including history).

The program in art is preprofessional in objective. Those seriously interested in careers in painting, sculpture, or the graphic arts are the most logical candidates. Every candidate for admission is advised, where possible, to read literature of a critical and art-historical nature, to visit museums and galleries, and to otherwise inform himself about the field of art. Art work done by the applicant, or slides thereof, should be presented at the time of the interview. Examples of class assignments, or independent work, or both, are acceptable.

College of Arts and Sciences

The College of Arts and Sciences is a liberal arts college. Its students pursue the traditional aim of liberal education: an understanding of themselves and the world in which they live.

Normally students study four years for their Bachelor of Arts degree. However, some may graduate in only three years,



and some in five. During the undergraduate years, students pursue at least a year's study in one of the natural sciences, in one of the social sciences or history, and in one of the humanities or one of the expressive arts. In addition, they must achieve competence in the use of the English language and lay a sound foundation in at least one foreign language. In their last two years students devote roughly half of their study to acquiring depth and competence in their major subject or area of concentration.

Though a part of the course of study is required, the student still exercises a wide choice in selecting particular courses to meet the requirements and has numerous unrestricted electives. Students are expected to accept a large share of responsibility in shaping their own programs of study, though every student is assigned to a faculty adviser and has recourse to other sources of advice on the campus in making the most of the educational opportunities at Cornell. For information about acceleration, study off-campus, and joint degree programs with other colleges at Cornell, see the *Announcement* of the College, or write to the Academic Advising Center, Office of the Dean, College of Arts and Sciences, Goldwin Smith Hall, Cornell University, Ithaca, New York 14850.

A student is offered a wide choice of fields of concentration and major study: Africana studies, anthropology, Asian studies, biological sciences, chemistry, classics, classical civilization, dance, economics, English, French, geological sciences, German, government, Greek, history, history of art, Italian, Latin, linguistics, mathematics, music, philosophy, physics, psychology, Russian, Semitic languages and literatures, social relations, sociology, Spanish, and theatre

Indoors and outdoors: top, a student explores fundamentals of design; middle, reading between classes on the *Ag Quad*; and bottom, thermal engineering students work at laser experiment.

arts. Additional programs and areas of concentration include American studies, archaeology, astronomy, comparative literature, computer science, the Program in Greek Civilization, the Human Affairs Program, human biology, international studies, the Program of Jewish Studies, Latin American studies, medieval studies, population studies, the Program in Roman Civilization, social psychology, and urban studies. Individual programs may be constructed through the College Scholar and the Independent Majors Programs (see below).

Though the program of studies in the College of Arts and Sciences has been constructed primarily to assure the successful achievement of a liberal education itself, it is also, according to graduate schools of law, medicine, and business administration, the best preparation for professional study.

In selecting students for admission, the College places increasing emphasis upon the quality of preparation in English, foreign languages, and mathematics. See Subject and Test Requirements for Admission, p. 14.

Students interested in the College of Arts and Sciences should request the *Announcement* of that College. Those interested in graduate study should consult the *Announcement of the Graduate School* (see list at the back of this *Announcement*).

College Scholar Program

Up to forty particularly able students from each class are selected as College Scholars for whom most of the College's degree requirements are waived. Working in close cooperation with faculty advisers, the College Scholars plan their own degree programs. For further information, write to the Office of Special Programs, College of Arts and Sciences, 159 Goldwin Smith Hall, Cornell University, Ithaca, New York 14850.

Independent Majors Program

The College offers a large number of departmental majors, but students who wish to design their own majors between

or across the boundaries of existing departments may propose independent majors. Those students enrolled in the Independent Majors Program usually define their own major field in their sophomore year, with the guidance and direction of appropriate members of the faculty. Further information is contained in the *Announcement of the College of Arts and Sciences*.

Subject and Test Requirements for Admission

A.B. four years. An applicant must have completed a secondary-school course giving satisfactory preparation for work of the College. Sixteen units of entrance credit are required: four years of English; three years of college-preparatory mathematics;* and three years of one foreign language, ancient or modern. (Foreign language preparation is particularly important in this College, but students who can offer only two years or less of a foreign language, but who have a school record of otherwise high quality, should not hesitate to apply. Such students should attach a letter to their application forms explaining this deficiency.) The remaining units should be chosen from laboratory science, social studies, and further work in mathematics and foreign language. Whenever possible, these sixteen units should be supplemented by courses in similar academic subjects. Exceptions to these requirements may be granted when the applicant's record is unusually promising. For example, students whose interests and academic and extracurricular achievements are in the fields of the creative and performing arts should not hesitate to apply because they have not taken a standard academic

curriculum. Demonstrated unusual strengths in one area may offset weaknesses in another.

Each candidate for freshman admission is required to take either the College Board Scholastic Aptitude Test or the American College Testing Program Examination (ACT) and, *in addition*, either the College Board Achievement Test in English Composition or the College Board Literature Test and two other College Board Achievement Tests in different subjects. The required tests should be taken no later than the January test date for the Scholastic Aptitude Test or the December test date for ACT during the senior year. The required College Board Achievement Tests must be taken no later than the January test date.

Although an achievement test in a foreign language is not required for admissions consideration, candidates should, before entering Cornell, take the College Board Achievement Test in any language which they have had in high school and expect to continue in the College or to use toward completion of a further College foreign language requirement. Because the score on such a test is needed for placement in language courses, the test should be taken late in the senior year—in March, May, or even July. Candidates for admission to the College of Arts and Sciences are advised to consult the *Announcement of the College of Arts and Sciences* for a full explanation of the College's foreign language requirements.

Delayed Enrollment

The College recognizes that for some students it may be desirable to delay the beginning of their university careers. Students sometimes benefit from a time away from formal schooling; the College therefore allows students to delay their first enrollment by two or four semesters. Any accepted freshman candidate who wishes to take advantage of this option must inform the Office of Admissions of the College by May 1 that, at that time, he accepts the offer of admission, and petition for a delay. The request should

*The increasing need for mathematics in the social, biological, and physical sciences makes it desirable for students interested in those areas to be prepared to take a calculus course upon entering the College; such students should have studied advanced algebra and trigonometry during their secondary school years.

specify the student's plans and state whether the delay will be for two or four semesters. If the College approves the request, the student will remit the \$50 registration fee and will be assured that a place is reserved for a specified future freshman class. After an approved delay, a student is required to inform the College, at least six weeks before the start of a semester, of his or her desire to enroll.

Graduate School of Business and Public Administration

The objective of the Graduate School of Business and Public Administration is to prepare men and women, through interdisciplinary studies at the graduate level, for administrative careers in private business, public service, and health care. Accordingly, the School offers work in many disciplines to provide the potential business, public, or health administrator with an understanding of the complexities of the external environment in which he will operate and of the internal workings of the organization of which he will become a part. Although the knowledge and analytical ability that a successful manager must possess will be developed in part from the constant challenge and stimulation of experience, education in business, public, or health administration can establish a sound basis for acquiring such knowledge and analytical ability and can accelerate understanding of the administrative environment.

Except as outlined in the *Announcement* of the School, a bachelor's degree or its equivalent is required for admission to the two-year program leading to the Master of Business Administration, Master of Public Administration, or Master of Professional Studies (Hospital and Health Services Administration) degree. Generally, about two-thirds of the students have a background of undergraduate studies in arts or sciences, and about one-quarter have studied engineering.

After completing the basic program, the M.B.A. candidate may elect a program of concentration in industrial accounting, professional accounting, finance, inter-

national business operations, managerial economics, marketing, personnel management, production and operations management, quantitative analysis for managerial decision making, or transportation. The M.P.A. candidate may elect a concentration in economic analysis and public policy, general public administration and policy formulation, international development and foreign operations, metropolitan and urban studies, or organizational theory and behavior. The M.P.S. (HHSA) candidate may elect a concentration in comprehensive health planning, medical care administration, hospital administration, or mental health administration. Also, a student in the health program may choose to elect either the M.B.A. or M.P.A. degree, in which case he must fulfill additional requirements beyond those required for the health degree.

Special programs, including combinations of work in the areas listed above and study at the graduate level in other divisions of the University, are also available. The content of the individual student's program is determined by him in consultation with his adviser.

Through a combined program in administration and law, organized by this School and the Cornell Law School, a student may obtain the M.B.A. or M.P.A. degree and the J.D. degree in four years.

The Doctor of Philosophy program provides an advanced and comprehensive education in administration, primarily for those who seek careers in teaching or research. Applicants must meet the entrance requirements of the Graduate School.

The School publishes the *Administrative Science Quarterly*, a scholarly journal concerned with advancing the basic understanding of administration through empirical investigation and theoretical analysis. It also publishes books and monographs on various aspects of administration and policy.

Through its Executive Development Program, the School offers an intensive six-week course of study designed for executives in business firms and govern-



mental agencies. Development programs are also offered for hospital administrators and agribusiness executives.

Malott Hall (1964), which houses the School, was designed to meet the specialized requirements of graduate education in administration.

Requests for further information should be addressed to the Director of Admissions and Student Affairs, Graduate School of Business and Public Administration, Malott Hall, Cornell University, Ithaca, New York 14850.

College of Engineering

New career opportunities in engineering are constantly developing as society responds to contemporary and future needs. The educational programs of Cornell's College of Engineering are flexible and adaptable to changing needs and priorities.

In addition to varied undergraduate engineering curricula leading to the degree of Bachelor of Science, Cornell offers graduate education in engineering and applied science in two main programs. A one-year program leading to the professional degree of Master of Engineering is offered in eleven different fields of engineering. The other stem of graduate study leads to the general degrees of Master of Science or Doctor of Philosophy and is oriented toward students who wish to prepare for academic or research careers in a variety of engineering and applied science disciplines.

The Cornell undergraduate program in engineering is designed to provide students with a broad educational background, as well as to prepare them for specialization in engineering or other disciplines. The curriculum provides for a minimum of 40 percent elective courses, some in liberal studies, some in technical

subjects, and some unrestricted. All students are enrolled in the Division of Basic Studies for their freshman and sophomore years and then enter a specialty field or develop an individualized, often interdisciplinary, program of study.

Among well-defined majors offered by the College are Field Programs in chemical engineering, civil and environmental engineering, electrical engineering, engineering physics, industrial engineering and operations research, materials science and engineering, and mechanical engineering. A program in agricultural engineering is arranged by enrollment in the College of Agriculture and Life Sciences for the first three years and in the College of Engineering for the fourth year.

There is considerable opportunity for the development of individualized curricula within the Field Programs, but for students whose interests or career goals are not met by one of these programs, there is the additional option of an individually structured College Program. Students in the College Program combine several engineering disciplines or augment their engineering education with study in such areas as the physical or social sciences, biology, computer science, architecture, city and regional planning, and ecology and conservation. Certain partially structured College Programs are sponsored by some of the engineering departments. These are in the areas of computer science, energy conversion, engineering science, geological sciences, and public systems planning and analysis.

Special programs available to engineering students include the Engineering Cooperative Program, which provides for periods of employment in industry during the undergraduate years without delaying graduation. Each co-op student gains valuable work experience with one of about twenty participating companies. Another special program provides financial aid and counseling services for minority-group students. Also, there is an active plan to facilitate the entry of transfer students from two-year colleges.

High rise, low rise: top, Bradfield Hall, the "agronomy tower," overlooks a campus garden; bottom, North Campus Student Residences form newest housing complex.

After receipt of the Bachelor of Science degree, most Cornell engineering students continue their studies at the graduate level. The largest number enters the College's Master of Engineering degree program, which is designed for those who wish to practice an engineering specialty. Others enter general graduate-degree programs in some branch of engineering or applied science through the Cornell Graduate School or at other universities. Some elect to prepare for careers in nonengineering fields such as business, education, law, and medicine.

The Cornell Master of Engineering degree, with field designation, is actually the first professional engineering degree awarded by the University. Although this one-year program is not restricted to Cornell baccalaureate engineering graduates, the various M.Eng. curricula are integrated with upper-class specialty curricula at the College and so provide professional education in an overall five-year course of study. The M.Eng. degree may be taken in any of the following areas: aerospace, agricultural, chemical, civil, electrical, industrial, materials, mechanical, or nuclear engineering; engineering mechanics; and engineering physics. For this degree, a design project rather than a thesis is required.

The M.S.-Ph.D. degree program is offered through the Graduate School, and study is organized into graduate Fields of Instruction. The Fields that may be of interest to engineering students include: aerospace engineering, agricultural engineering, applied mathematics, applied physics, chemical engineering, civil and environmental engineering, computer science, electrical engineering, geological sciences, materials science and engineering, mechanical engineering, nuclear science and engineering, operations research, theoretical and applied mechanics, and water resources.

Subject and Test Requirements for Admission

Required for undergraduate admission to the College of Engineering are sixteen

units of secondary-school subjects. These include English, four units; one foreign language, two units; history, two units; elementary and intermediate algebra, two units; plane geometry, one unit; trigonometry, one-half unit; either advanced algebra or solid geometry, one-half unit; chemistry, one unit; and physics, one unit. It is recommended that the candidate offer advanced algebra if possible, and additional courses in language or history. The mathematics may be taken as separate courses or as four units of comprehensive college preparatory mathematics.

Applicants for undergraduate admission must also submit the results of standardized college entrance tests. The preferred procedure is for the student to take the College Board Scholastic Aptitude Test (SAT) and, in addition, the College Board Achievement Tests in mathematics (level I or level II) and in chemistry or physics. An alternative plan is for the applicant to submit scores from the American College Testing Program (ACT).

The College Board tests must be taken not later than January of the senior year in secondary school; the ACT tests should be taken not later than the December test date. Generally, it is recommended that the College Board Achievement test in science be taken in May of the junior year, in that science in which the applicant in then enrolled. *An applicant should not delay any* standardized college entrance test beyond January of his senior year, because results would be received too late to be useful. Particular circumstances are taken into consideration in the evaluation of each student's test results.

Applicants seeking advanced placement and college credit should take the appropriate College Board Advanced Placement Examinations in May of the senior year. Subjects in which these examinations are frequently taken are mathematics, chemistry, and physics. A special publication, *Advanced Placement for Engineering Students*, may be requested from the Office of Engineering

Education, 223 Carpenter Hall, Cornell University, Ithaca, New York 14850.

Required for admission to a graduate degree program in engineering is a baccalaureate or equivalent degree from a college or university of recognized standing. The applicant must show promise of the ability to succeed in graduate study and have adequate preparation for the work in his chosen field.

Acceptance into the Master of Engineering degree program is generally accorded a baccalaureate graduate of the Cornell College of Engineering if he has a cumulative grade-point average of at least 2.5. Graduates of schools other than Cornell must provide a transcript from their undergraduate school, two letters of recommendation, and a statement of academic purpose.

Those who wish to enroll in graduate programs leading to the Master of Science or Doctor of Philosophy degrees should apply to the Graduate School. It is advisable for prospective students to correspond with the professor who is the Graduate Field Representative in the subject area of interest.

Students interested in undergraduate study at the College of Engineering may request the publication *Engineering at Cornell*; those interested in graduate study may request *Graduate Study in Engineering and Applied Science*. Both of these are part of the University's *Announcement* series. Detailed descriptions of undergraduate and graduate courses and fields may be found in the *Announcement of the College of Engineering* and the *Announcement of the Graduate School*.

Graduate School

The Graduate School offers facilities for advanced study and research to students who wish to receive advanced professional training and to become scholars in the broad sense of the term.

Graduate study is necessarily a highly individual process. The transmission of scholarly enthusiasm and the attainment

of scholarly independence is not assured by a system of regulations and requirements alone; the faculty regards person-to-person relationship between the student and his Special Committee as the best way for the student to reach scholarly maturity. The faculty makes no specific requirements for the advanced general degrees of Master of Arts, Master of Science, and Doctor of Philosophy but makes only such general requirements which, in its considered judgment, best accomplish the aim of graduate study: a period of study in residence, the mastery of some one subject, adequate acquaintance with allied subjects, oral examinations to establish competency for presentation of a thesis, and a satisfactory thesis. The Graduate School faculty, as a unit, exercises sole jurisdiction over these advanced general degrees.

Requirements for Admission

To be admitted to the Graduate School an applicant must

1. hold a baccalaureate degree from a college or university of recognized standing or have had work equivalent to that required for such a degree
2. show promise, as judged by previous record, of ability to pursue advanced study and research satisfactorily (class standing in the top third is considered minimal)
3. have adequate preparation for graduate study in the chosen field
4. have fluent command of the English language
5. have a combined score of 1200 in the Aptitude Test of the Graduate Record Examinations.

Despite very good academic records, however, some well-qualified applicants may fail to gain admission because of limited staff and facilities.

Information concerning admission requirements and courses of study for professional degrees may be obtained from the several colleges that administer them. Students wishing to use the University's facilities for intensive specialized training only, and who do not

wish to become degree candidates, may apply for admission as noncandidates.

Inquiries regarding admission and fellowships should be addressed to the Dean of the Graduate School, Sage Graduate Center, Cornell University, Ithaca, New York 14850. Applications for financial support must be received before February 1.

Inquiries regarding facilities for advanced study and research in a given field, special requirements for such study and research, and opportunities for teaching and research assistantships may be addressed to a member of the faculty in the particular field, or to the dean.

For further information see the *Announcement of the Graduate School*.

School of Hotel Administration

The special program in hotel and restaurant administration gives thorough professional training for careers in the hotel, restaurant, hospital, and related fields. The curriculum is designed to fit students for positions of executive responsibility.

Along with courses in the humanities, the program of study includes general and specialized accounting involving computer application, business administration, financial management, food science and food service management, functional design, human resources development, marketing, and property administration as these subjects relate to worldwide developments in food, lodging, and travel.

The program is technical in that it requires a concentration of effort in scientific courses necessary for an adequate background in a field where a core of basic information must be mastered. Yet it is sufficiently broad to allow for optional courses that are of value to those who look forward to positions of top executive responsibility.

The course of study covers four academic years and leads to the Bachelor

of Science degree.

Students receive practical training through the operation of Statler Inn, a practice hotel on the University campus, which includes rooms for transient guests, banquet facilities, service restaurants, and cafeterias. A newly instituted program also provides for management internship in selected organizations away from the campus under the supervision of a School director.

Requests for further information should be addressed to the Director of Admissions, School of Hotel Administration, Statler Hall, Cornell University, Ithaca, New York 14850.

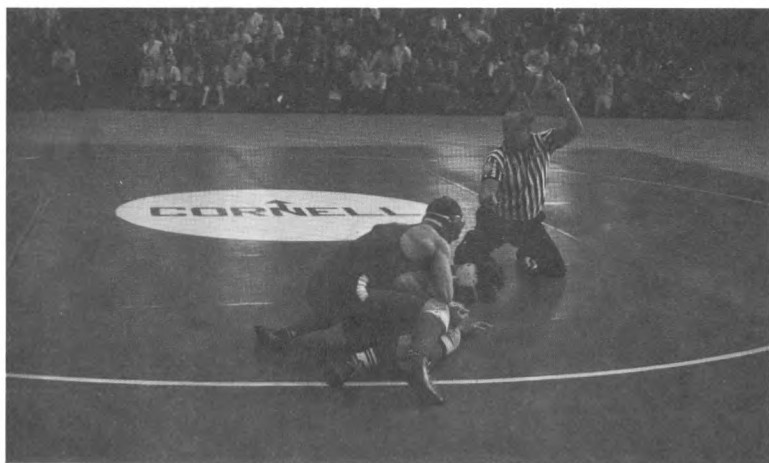
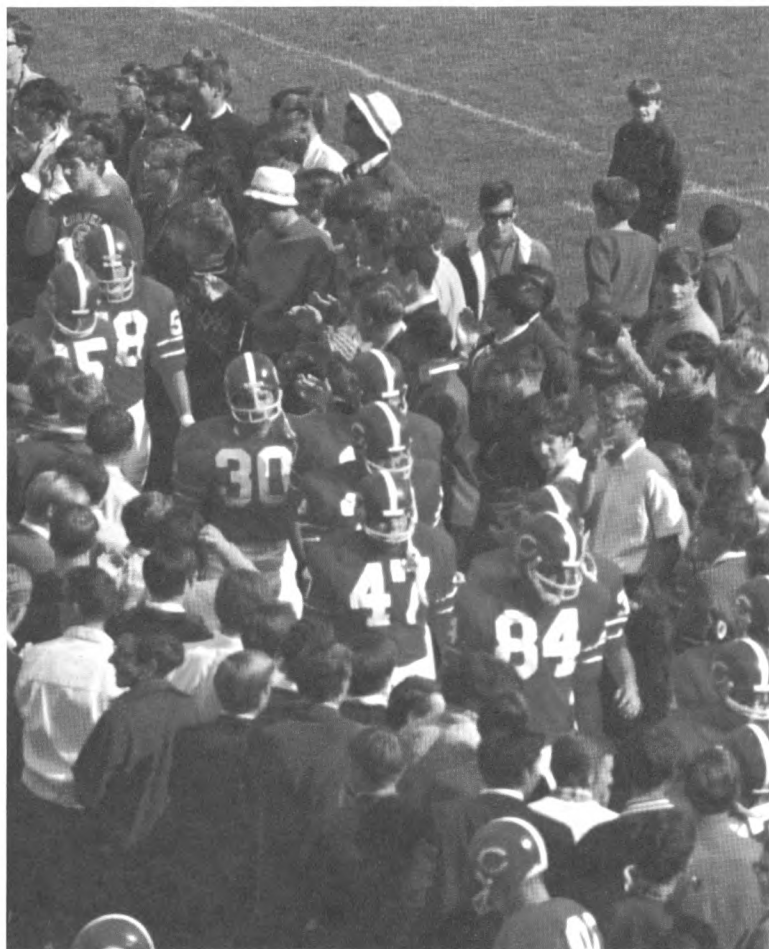
Subject and Test Requirements for Admission

B.S., four years. Sixteen units are required. These must include English, four units; mathematics, three units; and science, one unit (chemistry required). The remaining units should include additional courses in mathematics and sciences (especially physics), social studies (including history), and a foreign language. The Scholastic Aptitude Test of the College Entrance Examination Board is required of all students whose native tongue is English.

New York State College of Human Ecology

The undergraduate program of the College of Human Ecology provides basic course work in subjects that relate man to his near environment. Today more than ever there is a pressing need for professionals with solid college training to formulate solutions to human problems. The aim of the College is twofold: to offer, through the facilities of the College and University, a liberal education in the social and natural

Big Red: top, football team gets traditional halftime greeting from freshmen; bottom, wrestling at Barton Hall.



sciences, the humanities, and the arts; and to provide specialized instruction based upon these disciplines. The College prepares graduates for professional careers in which the interests and well-being of the individual, the consumer, and the family are paramount. Because the educational program emphasizes both breadth of knowledge and its application to the solution of human problems, it offers professional or preprofessional training for an increasing variety of positions. The College does not prepare teachers for elementary school certification.

Four years of academic work lead to the Bachelor of Science degree. Requirements for the degree include study in the humanities and the biological, physical, and social sciences and the completion of a major in a department in the College. Electives may be taken in the College and elsewhere in the University.

The program of liberal studies emphasizes those subjects which best help man to understand himself and his environment. It provides the basic knowledge required for successful professional work in a society that is changing both technologically and sociologically. The specialized studies relate general knowledge to an understanding of the needs of people with regard to food, shelter, clothing, management of resources, and interpersonal and family relationships.

Departments in the College include Community Service Education, Consumer Economics and Public Policy, Design and Environmental Analysis, Human Development and Family Studies, and Human Nutrition and Food.

Professional opportunities are many and varied. Graduates of the College are employed in social casework and group work, and in the study of budgets and standards that help social agencies function; in hospital dietetics and nutrition education; in business, as professionals in consumer education and services, and in the design, promotion, and testing of such items as foods,

textiles, household and institutional equipment, and furnishings; in teaching at preschool, secondary, and college levels, and in cooperative extension; in research programs; and in writing, radio, and television positions.

Graduate study in the College, offered through all departments, leads to either the master's or the Ph.D. degree. Candidates must qualify for admission to the Graduate School.

A list of undergraduate and graduate courses may be found in the *Announcement of the College of Human Ecology*.

Inquiries about the undergraduate program may be addressed to the Committee on Admissions, Martha Van Rensselaer Hall, College of Human Ecology, Cornell University, Ithaca, New York 14850. Requests for information about graduate study may be addressed to the Associate Dean for Graduate Education and Research at the same address.

Subject and Test Requirements for Admission

B.S., four years. Applicants must offer sixteen academic units to include four units of English; three units of college preparatory mathematics; and one unit of biology, chemistry, or physics. The remaining units shall be drawn from history or social studies, foreign language, additional science, and mathematics. It is strongly recommended that students complete both one unit of biology and one unit of chemistry or physics prior to admission. Students entering the College without previous study in (a) biology or (b) chemistry or physics will be required to complete a semester course in the respective area in order to meet general graduation requirements.

The Scholastic Aptitude Test of the College Entrance Examination Board or the results of the American College Testing Program are required. Achievement Tests of the College Board are not required, but if achievement test scores are received, they are taken into account by the selection committee.

New York State School of Industrial and Labor Relations

The School of Industrial and Labor Relations offers professional study in its field for both graduate and undergraduate students. The curriculum is designed to prepare young men and women for careers in personnel and union-management relations work with business and industry, labor unions, and both state and federal governments. It also offers preparation for postbaccalaureate study in the fields of law, education, business, psychology, sociology, economics, history, political science, international affairs, and numerous interdisciplinary graduate degree programs concerned with contemporary social, economic, urban, and political problems, domestic and foreign. Undergraduates pursue a curriculum leading to the Bachelor of Science degree, and graduate study leads either to the master's or to the doctor's degree.

Aimed at developing an understanding of urban industrial society, the curriculum provides a broad base in the social sciences, a core of course work in industrial and labor relations subjects, and a complement of general electives in the humanities. The freshman and sophomore years consist mainly of required courses, offered by the School, the College of Arts and Sciences, and the College of Human Ecology. Upperclassmen are free to pursue elective studies, about evenly divided between courses offered by the School and by other divisions of the University.

Undergraduates wishing to prepare for graduate work in one of the basic social sciences may use out-of-college electives to establish an informal minor in economics, government, history, psychology, or sociology. Choice of advanced Industrial and Labor Relations electives will reflect the individual student's interests in the offerings of the following departments in the School: Organizational Behavior; Labor Economics and Income Security; Collective

Bargaining, Labor Law, and Labor Movements; Economic and Social Statistics; International and Comparative Labor Relations; and Manpower Studies.

Requests for further information should be addressed to the Director, Office of Resident Instruction, School of Industrial and Labor Relations, 101 Ives Hall, Cornell University, Ithaca, New York 14850.

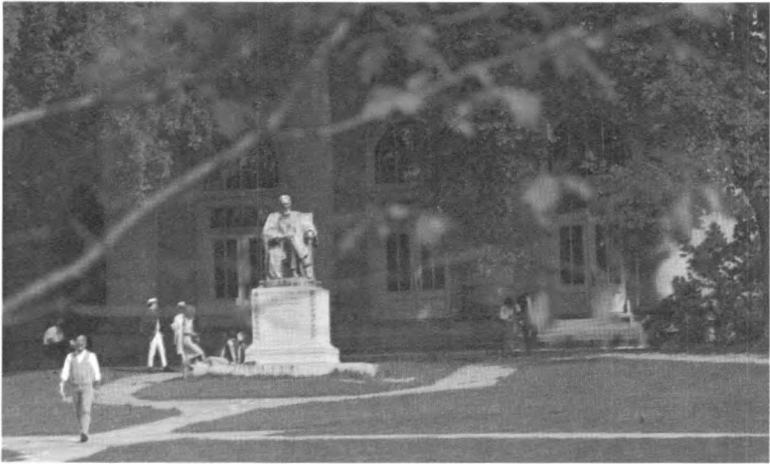
Subject and Test Requirements for Admission

B.S., four years. Sixteen units, including four units of English, are required. The remaining twelve units should consist of college preparatory courses such as foreign language (ancient or modern), history, mathematics, science, and social studies. Candidates are required to present either the results of the College Entrance Examination Board tests (the Scholastic Aptitude Test and Achievement Tests in English composition and in mathematics-level I or II) or the results of the American College Testing Program. In addition, each applicant is required to submit with his application a 500-word statement (preferably typewritten), indicating the basis for his interest in the field of industrial and labor relations.

Law School

The primary function of the Law School is to prepare attorneys for both public and private practice who are equipped to render skillful professional service and who are thoroughly conscious of the important role played by the law as a means of social control. The curriculum is designed to prepare students for admission to the bar in all American states and territories.

A student who is admitted to the Law School must have a baccalaureate degree from an approved college or university. Undergraduates registered in the College of Arts and Sciences at Cornell may, on the basis of separate application, be admitted to the Law



School under its admissions standards then prevailing, if at the time of entry they will be credited with 105 of 120 hours required for an A.B. degree (92 hours in Arts College courses). The course of study leading to the degree of Doctor of Law (J.D.) covers three academic years. A limited number of students will be admitted to a program of study leading to the degree of Doctor of Law (J.D.) "with specialization in international affairs."

The Law School and the Graduate School of Business and Public Administration have developed a program for combining a law school education with training in either business or public administration, according to a student's election. Upon completion of work in the two fields the student is awarded two degrees in four rather than five years. An applicant for admission to this combined program must make a separate application to each school and be approved by both.

There is also a program which enables law students to earn both a J.D. degree and a degree of Master of Regional Planning in four years. Students who successfully complete their first year in the Law School may thereafter elect one course each semester in the College of Architecture, Art, and Planning. Students who continue to maintain the quality of the work in the Law School and who demonstrate an aptitude for planning will be guaranteed a place in the College of Architecture, Art, and Planning at the end of the second year. Upon successful completion of the requirements for a J.D. degree, these students will spend a fourth year at the College of Architecture, Art, and Planning

For study and research: top, Goldwin Smith Hall is a center for Arts and Sciences; middle, north wing of Martha Van Rensselaer Hall provides additional space for College of Human Ecology; bottom, Baker Research Laboratory rises above Beebe Lake.

to complete the requirements for an M.R.P. degree.

The New York State School of Industrial and Labor Relations at Cornell University offers a special two-semester program leading to an M.I.L.R. (Master of Industrial and Labor Relations) degree for outstanding law school graduates. Both recent graduates and those currently working in the field of law are eligible for admission.

The graduate program of the Cornell Law School is a small one to which only a few students are admitted each year. Financial resources for graduate scholarships and fellowships are limited. The LL.M. degree (Master of Laws, Legum Magister) and the J.S.D. Degree (Doctor of the Science of Law, Jurisprudentiae Scientiae Doctor) are conferred. The LL.M. degree is intended primarily for the student who desires to increase his knowledge of law by work in a specialized field. The J.S.D. degree is intended primarily for the student who desires to become a legal scholar and to pursue original investigations into the function, administration, history, and progress of law. A small number of law graduates may also be admitted as special students, to pursue advanced legal studies without being degree candidates.

Requests for further information should be addressed to the Director of Admissions, Cornell Law School, Myron Taylor Hall, Ithaca, New York 14850.

Medical College

Cornell University Medical College is located at the center of a large complex of medical institutions involved in teaching, research, and treatment on the east side of Manhattan in New York City.

The Medical College offers a four-year course of graduate instruction leading to the degree of Doctor of Medicine and qualifying graduates for licensing examinations in all states and territories of the United States. Applicants for admission to the Medical College must

be graduates of approved universities, colleges, or scientific schools. The first two years primarily are devoted to study of the basic sciences of anatomy, microbiology, pathology, physiology, biochemistry, public health, and pharmacology, but a number of hours are reserved for the clinical sciences (approximately 20 percent of total time) and electives (10 percent of total time). In addition, there are a number of interdisciplinary and interdepartmental conferences. The last two years concentrate on training in the clinical sciences of internal medicine, neurology, surgery, pediatrics, psychiatry, and obstetrics and gynecology. There is also a large elective program in the fourth year.

Cornell University Medical College is a partner in The New York Hospital—Cornell Medical Center. In its teaching programs the Medical College is affiliated with and uses the clinical facilities of The New York Hospital; Memorial Sloan-Kettering Cancer Center; Manhattan Eye, Ear and Throat Hospital; the Hospital for Special Surgery; and the North Shore Hospital. Requests for information should be addressed to the Chairman, Admissions Committee, Cornell University Medical College, 1300 York Avenue, New York, New York 10021.

Graduate School of Medical Sciences

The Graduate School of Medical Sciences offers programs leading to the degree of Doctor of Philosophy in the Fields of Biochemistry, Biological Structure and Cell Biology, Biology, Biomathematics, Biophysics, Genetics, Microbiology, Neurobiology and Behavior, Pathology, Pharmacology, and Physiology. The School also offers programs leading to the Master of Sciences degree in some of these Fields. The faculty of the School is drawn from the basic science departments of Cornell University Medical College and from the units of its Sloan-Kettering Division. The research facilities of the Medical

College and of the Sloan-Kettering Institute for Cancer Research are utilized in the graduate programs of the School. Requests for information should be addressed to the Graduate School of Medical Sciences, Cornell University Medical College, 1300 York Avenue, New York, New York 10021.

Cornell University—New York Hospital School of Nursing

Two nursing programs, each consisting of four semesters of fulltime study, are offered at the School of Nursing in New York City. The School is a unit within the complex of the New York Hospital—Cornell Medical Center.

One program is open to students who have satisfactorily completed sixty semester hours (two years) of general courses. These first two years may be taken at Cornell University in Ithaca in the College of Arts and Sciences, the College of Human Ecology, or the College of Agriculture and Life Sciences, or at any regionally accredited university, college, or junior college.

Another program is open to those persons who have a baccalaureate degree in another discipline and wish to seek a professional education.

Both programs offer preparation for professional nursing and lead to the degree of Bachelor of Science in Nursing. Opportunities are open to graduates in a wide variety of health services in the United States and abroad.

Requests for further information should be addressed to the Registrar, Cornell University—New York Hospital School of Nursing, 1320 York Avenue, New York, New York 10021.

Graduate School of Nutrition

The Graduate School of Nutrition offers the professional degree, Master of Nutritional Science (M.N.S.). The program gives a firm foundation in the biological and social science aspects of nutrition. Students are given practical preparation for work in a professional

career through carefully selected courses and a special research problem.

One of the following specializations may be chosen: nutritional biochemistry; experimental animal nutrition; international nutrition; public health nutrition; or clinical nutrition.

Students select faculty advisers in whose areas of specialization their own interests lie. An adviser plans a curriculum to meet the students' particular needs according to educational background, area of graduate study, and professional goals after graduation, and directs the students' research problems including a report of thesis quality.

Having completed the M.N.S. degree, students will find that they have had excellent training for more advanced study in areas such as biochemistry, physiology, and nutrition (animal or human) or, when their ambitions are not yet established, that the interdisciplinary nature of the program has been particularly helpful in the selection of an area of graduate study leading to a Ph.D. degree.

Applicants for admission to the School must hold a baccalaureate degree from an accredited college or university. Requests for further information should be addressed to the Secretary, Graduate School of Nutrition, Savage Hall, Cornell University, Ithaca, New York 14850.

New York State Veterinary College

The Veterinary College curriculum, which requires four academic years, provides a biological background in the science and art of veterinary medicine. Training includes instruction in normal and abnormal structure and function of the animal body; in diagnosis, prevention, and treatment of animal diseases; and in matters that pertain to public health. Upon completion of the prescribed course of study, the degree of Doctor of Veterinary Medicine is awarded. This degree is recognized by the licensing boards of all states and territories of the United States and by similar agencies

in foreign countries. Graduates may enter private practice, salaried work with state or federal agencies or private corporations, or research and teaching in a variety of institutions.

Requirements for admission to the College include three years of college work with credits in several specified subjects and satisfaction of an animal practice requirement. Selection is based on scholastic ability and vocational motivation. Since the College is state-supported, preference is given to New York State residents. Applications for admission are due by December 15.

Requests for further information about professional study for the Doctor of Veterinary Medicine degree should be addressed to the Director of Student Administration, New York State Veterinary College, Ithaca, New York 14850.

Work at the graduate level leading to the degrees of Master of Science, Doctor of Science in Veterinary Medicine, and Doctor of Philosophy is offered in accordance with the regulations of the Graduate School. Detailed information may be obtained by writing to the Dean of the Graduate School, Sage Graduate Center, Cornell University, Ithaca, New York 14850.

Divisions

Students may register in all of the following divisions except for the Division of Biological Sciences.

Division of Summer Session and Extramural Courses

Under the auspices of the Division of Summer Session and Extramural Courses, the University offers a wide variety of credit and noncredit courses during the summer for graduate, undergraduate, and nondegree students, and for high school graduates accepted for admission by an accredited college. The Division also provides an oppor-



tunity for local residents to take part-time study during the regular school year. In this way an individual may gain credit toward an academic degree, may take work necessary for job advancement, or may pursue cultural and avocational interests.

Summer Session

The Summer Session of Cornell University is planned with the cooperation of the faculties of the separate schools and colleges. It involves a wide spectrum of courses and includes programs which especially lend themselves to the concentrated study period and the summer environment. The regular Cornell standards of instruction and academic performance are maintained.

A balanced program of study and recreational activities is available to college-bound secondary school seniors, undergraduate and graduate degree candidates, and persons interested in continuing education for personal or professional improvement. A varied selection of courses is offered by the Summer Session to those persons for whom the summer period is especially convenient for study.

Classes in the summer provide the particular advantage of optimum size for close association between student and instructor. The median class size in past summers has ranged from twelve to fifteen students.

All necessary facilities of the University are available to students registered in the Summer Session: libraries, classrooms, and laboratories; residence halls, dining rooms, and cafeterias; health services and medical care; counseling services; student unions, chapel, playing fields, and a variety of recreational areas.

Engineering College: top, materials science facilities are housed in Bard Hall; bottom, assembling solid state microwave oscillator diodes.

Extramural Courses

Through extramural registration, the University seeks to serve local residents who want to take one or two courses per term for their own personal interest and advancement and who do not wish to pursue full-time study. Normally, an individual is not permitted to register for more than eight credit hours in a single term. Interested persons may apply for admission to practically any course regularly offered in the University but will be admitted only to those courses for which they have adequate preparation. This decision rests with the course instructor, who must provide written approval before an individual may register for the course in question. In addition, it is understood that extramural registrants have the lowest priority for space in the class and will be asked to withdraw if there is not enough space for all Cornell degree candidates who desire to take the course. All courses carry the same credit as for the full-time student.

Requests for additional information about either the Summer Session or extramural courses should be addressed to the Dean, Division of Summer Session and Extramural Courses, 105 Day Hall, Cornell University, Ithaca, New York 14850.

Division of Unclassified Students

The Division of Unclassified Students is designed to assist the potentially able student whose basic interests and aptitudes lie outside the course in which he originally enrolled. Any student who has been in residence as a candidate for a degree in any of the colleges or schools of the University may apply for admission. Only the student who has a reasonable prospect of achieving his new goal is accepted.

The Division accepts applications for either semester. The student who feels that he is misplaced or is uncertain of his objective should consult the Director early in his college career.

Application should be made at the

office of the Division of Unclassified Students, 158 Olin Hall, before July 15 for the fall term and before December 15 for the spring term. In addition, the student must notify the Office of the Registrar of his desire to transfer.

All students admitted remain under the direct supervision of the director, who serves as their faculty adviser. An unclassified student may elect courses for which he is qualified in any division of the University, subject to the usual limitations on enrollment.

A student registered in the Division may apply for admission to any undergraduate college or school of the University.

Registration in the Division is on a semester basis. One semester is usually a sufficient period in which to determine a student's fitness for the newly chosen course. A second term of registration may be permitted in a few instances in which definite progress has been made and when more time is necessary to meet basic requirements for transfer. If at the end of two terms the student has not been accepted by another school or college on the campus, he may not reregister in the Division of Unclassified Students.

The Administrative Committee of the Division has the same authority with respect to its students as have the corresponding committees in the other divisions of the University. Students in the Division are regular students in the University; they may participate in extracurricular activities and enjoy all the usual rights and privileges of other students.

The Division of Biological Sciences

Courses in biological sciences are an integral part of many disciplines today and a basic requirement for areas of study in many schools and colleges of Cornell. Students may also major in biological sciences and choose, for example, one of the following areas of concentration: animal physiology and anatomy; biochemistry; botany; ecology,

evolution, and systematics; genetics, development, and physiology; or neurobiology and behavior.

The Division of Biological Sciences was established to incorporate a unified curriculum for undergraduate majors. The program stresses the importance of a firm foundation in the basic sciences and, therefore, prepares the student for a career in the many areas and applications of modern biology. Students are provisionally accepted and, after satisfactorily completing one year of biology courses, one year of general chemistry, and one year of college mathematics (including at least a semester of calculus), are accepted into the program. Students are not encouraged to undertake a specialization in Biological Sciences unless their performance in the above courses gives evidence of a capacity to do satisfactory work at a more advanced level. Having achieved an undergraduate degree, students sometimes go on to do research at the graduate level in related areas, including Graduate Biomedical Fields and others.

Prospective students interested in majoring in Biological Sciences, since they will *register* either in the *College of Agriculture and Life Sciences* or the *College of Arts and Sciences*, should consult the *Announcements* of those schools for more detailed information.

Programs and Centers of Study

Africana Studies and Research Center

Among the basic commitments of the Africana Studies and Research Center at Cornell is the determination to foster a new understanding of the past, present, and future condition of peoples of African descent. Seen as a community

of scholars whose numbers include both teachers and students, the Center places strong emphasis on research and effective and innovative teaching in terms of structure, use, method, and content.

The undergraduate major in Africana studies is designed to give students the foundation to become teachers and research scholars as well as professional technicians. The Program is geared toward relieving the shortage of persons whose education and training equip them to attack the problems of the African peoples. Thus one goal of the Program is the production of thoroughly prepared and committed professionals who will deal with such problems as a lifetime career. The major in Africana studies requires thirty-six credits of course work within the Center and in related subjects in other areas of the University, out of a total of one hundred and twenty credits required for graduation. Work offered within the Center includes a broad grounding in African heritage, African behavior, African expression and language, and African political thought.

A master's degree program offering a Master of Professional Studies (African and African-American) has been established at the Center. The purpose of the Program is to prepare students for professional careers that are relevant to the learning and leadership needs of the African-American community. Under the Program, it is envisioned that the knowledge and methodology of various fields and disciplines will be brought to bear upon the history, present state, and dynamics of Black peoples and cultures in Africa, the Americas, and the Caribbean.

Requests for additional information about the Center and its programs should be addressed to the Office of the Director, Africana Studies and Research Center, Cornell University, 310 Trip-hammer Road, Ithaca, New York 14850.

Greek and Roman Civilization Programs

Designed for freshmen and sophomores, the Program in Greek Civilization and the Program in Roman Civilization present integrated approaches to these cultures through the various disciplines. They are equally valuable for students planning to concentrate in the sciences or in the humanities. Further information is contained in the *Announcement of the College of Arts and Sciences*.

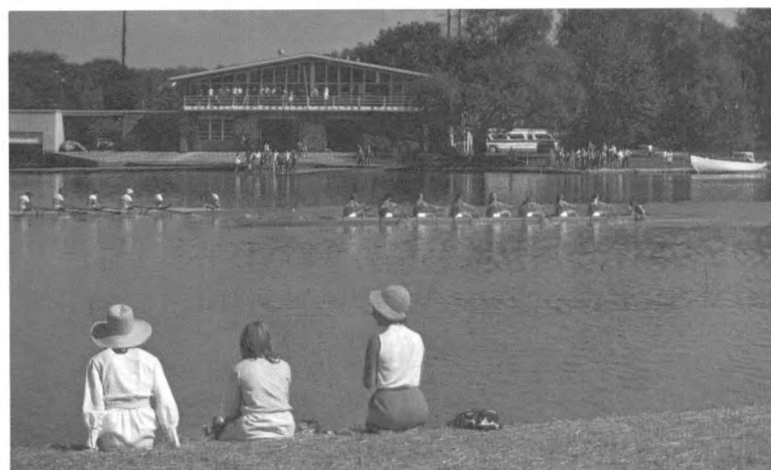
Independent Majors Program

This Program is designed for students who wish to focus on a topic that lies between or across the boundaries of existing departments. In his second semester as a sophomore the student is given the opportunity to define and design his own major field, with the guidance and direction of appropriate members of the faculty. Further information is contained in the *Announcement of the College of Arts and Sciences*.

Center for International Studies

The major role of the Center for International Studies is to support and coordinate Cornell's programs of international and comparative studies. The Center functions through a network of faculty committees which are organized on a multidisciplinary basis and are essentially self-governed. These include programs of area studies, including Southeast Asia, China, Latin America, the Soviet Union, South Asia, and Europe; and professional programs, including International Agricultural Development, International Legal Studies, and International and Comparative Labor Relations.

Another more recent role of the Center has been to strengthen inquiry into substantive policy issues which cut across professional and area concerns. In cooperation with other University units, C.I.S. sponsors programs on International Sciences and Technology,



International Population, Peace Studies, Participation and Labor-Managed Systems, and Rural Development.

Students interested in international or comparative studies will find that the flexibility of both undergraduate and graduate requirements permits considerable latitude in selecting subjects. Appropriate courses of study can be selected from the regular offerings of various departments of the University.

The work of the Center and of associated activities is more fully described in the Center's *Annual Report of International Studies at Cornell University*, which may be obtained from the Center's office at 170 Uris Hall.

Program of Jewish Studies

The Program of Jewish Studies is included in the broadened framework of the offerings of the Department of Semitic Languages and Literatures. It has grown out of the conviction that Judaic civilization, no less than Greek and Roman, merits comprehensive and thorough treatment. The Program enables students to obtain basic instruction and specialization in the fields of Hebrew and Aramaic languages, the Old Testament, the Apocryphal and Tannaitic Literatures, medieval Jewish philosophy, medieval Hebrew literature, modern Jewish thought, modern Hebrew literature, as well as medieval and modern Jewish history. In all these fields students may take courses on a graduate as well as undergraduate level.

Further information regarding the Program may be obtained by writing for the *Announcement of the College of Arts and Sciences*, Cornell University Announcements, Day Hall, Ithaca, New York 14850.

Sports in season: top, hockey at Cornell ranks with football as a spectator sport; middle, fencers drill on grass at Helen Newman Hall, women's physical education building; bottom, crews pass Collyer Boat House on Cayuga inlet.

Officer Education

As a land-grant institution chartered under the Morrill Act of 1862, Cornell has offered instruction in military science for more than one hundred years.

Instruction is provided by the Department of Military Science (Army ROTC programs), the Department of Naval Science (Naval ROTC programs), and the Department of Aerospace Studies (Air Force ROTC programs).

A student has the opportunity, through these programs, to earn a commission while completing requirements for an academic degree. ROTC qualifies the student for service as an officer in the Army, Navy, Marine Corps, or Air Force and provides valuable managerial training for civilian or military careers. To obtain a commission in one of the armed services, a student must meet certain physical standards and complete the required course of study in a four-, three-, or two-year program. Upon graduation, the student is commissioned and can expect to serve a required tour of active military service. Active duty requirements vary significantly between services and programs. Certain qualified students may delay active duty to pursue graduate studies.

Participation in ROTC is voluntary. It is advisable for interested students to enroll in the fall of the freshman year since openings in the three- and two-year programs may be limited, depending on conditions at the time.

On-campus students and potential transfer students who wish to apply for the two-year programs must do so in the early spring of the sophomore year. Interested students with high aptitude may be eligible for scholarships consisting of tuition, books, and a monthly subsistence allowance.

Women who desire to participate in Officer Education programs should contact the appropriate ROTC Department for details on enrollment eligibility.

Further information is given in the *Announcement of Officer Education*, which may be obtained by writing to

Cornell University Announcements, Day Hall, Ithaca, New York 14850. Details on the specific programs, including scholarships and active duty requirements, may be obtained by writing the Commanding Officer of the Department concerned, Barton Hall, Cornell University, Ithaca, New York 14850.

Program on Science, Technology, and Society

The purpose of the interdisciplinary Program on Science, Technology, and Society is to stimulate and support teaching and research on the interaction of science and technology with contemporary society. The Program also plays a role in providing coherence and support for related activities already under way throughout the University.

The topics of concern to the Program are illustrated by the following examples: science, technology, and national defense; technology assessment; world population and food resources; legal and moral implications of modern biology and medicine; national policy for the development of science; science, technology, and values; sociology of science and technology; and the ecological impact of developing technology.

The mechanisms for studying these problems vary and include courses, seminars, short workshops, and summer studies, as well as individual research programs. The Program welcomes the participation of students and faculty from all colleges and schools of the University. The Program is developing a Science Policy stream within the graduate minor field of Public Policy and urges interested students to apply. A few graduate research assistantships are available and may be applied for by any student with an appropriate thesis research program. Information on these and a list of relevant courses in all parts of the University may be obtained from the Program office, 628 Clark Hall (telephone 607/256-3810).

Women's Studies Program

Women's Studies, an interdisciplinary program in the College of Arts and Sciences, has three goals: to encourage the development of teaching about women, to expand research having to do with women, and to cooperate with the extension and public service activities of Cornell University. Each term, the Program offers undergraduate and graduate courses both independently and in cooperation with other departments. During 1972-73, course themes included the social psychology of women, women in fiction, women and communism in China, feminist art, the biological basis of sex differences, cross-cultural perspectives on women's roles, women in antiquity, women in the American work force, feminine identity, and sexism and racism in early America. Summer Session course topics included the socialization of adolescent girls, women in Spanish-American literature, women and power in America, women in Renaissance drama, autobiographical writing by women, and the psychology of woman.

Although Cornell does not offer a major or minor in Women's Studies at this time, students are encouraged to develop expertise in the subject by choosing among the courses offered each term.

The Program is guided by a Faculty Board composed of professors from Arts and Sciences, Human Ecology, Industrial and Labor Relations, and Agriculture and Life Sciences. In addition, there is an Advisory Group composed of students, lecturers, postdoctoral associates, and others who meet monthly. Women and men students and faculty from all colleges at Cornell are welcome in Women's Studies. Persons wishing a copy of the course list for the current term and a list of related courses offered elsewhere at the University should write to Women's Studies Program, College of Arts and Sciences, 431 White Hall, Cornell University, Ithaca, New York 14850 (telephone 607/256-6480).

University Requirement in Physical Education

As part of the normal course of study leading to a baccalaureate degree, the University faculty has established the following requirements in physical education.

All undergraduate students must complete four terms of work in physical education.

The requirement in physical education is a requirement of the first four terms, and postponements are to be allowed only by consent of the University Faculty Committee on Academic Records and Instruction.

Exemptions from the requirement may be made by the Committee on Academic Records and Instruction when recommended by the Cornell medical staff, or because of unusual conditions of age, residence, or outside responsibilities. Students who have been discharged from the armed forces may be exempted.

For students entering with advanced standing, the number of terms of physical education required is to be reduced by the number of terms which the student has satisfactorily completed (not necessarily including physical education) in a college of recognized standing.

Responsibility for the interpretation of the requirement and for its application in individual cases is placed upon the Committee on Academic Records and Instruction.

The University requirements in physical education may be met by four terms of satisfactory work in courses under the supervision of the Department of Physical Education. Publications describing the courses offered will be made available to entering students by the Department. There are separate programs, with separate staffs, for men and women. The courses are directed toward the development of skills and the encouragement of an interest in recreational sports that will be carried over after graduation, as well as toward the student's immediate physical welfare.

Any entering student who believes that he qualifies for exemption from the requirements or for postponement of the satisfaction of them, should present his case to the appropriate member of the University Faculty Committee on Academic Records and Instruction. The committee members are: Paul L. Gaurnier, associate dean, Hotel School, chairman; Earl H. Brown, associate director, Resident Instruction, Agriculture and Life Sciences; Malcolm S. Burton, associate dean, Engineering; Donald P. Dietrich, assistant dean, School of Industrial and Labor Relations; Jean Failing, associate dean, Human Ecology; William H. Johndrew, director, Veterinary Student Administration; Paul J. Leurgans, associate dean, Graduate School; Charles W. Pearman, associate dean, Architecture, Art, and Planning; Martin W. Sampson, dean, Summer Session and Extramural Courses; Alain Seznec, associate dean, Arts and Sciences; David A. Thomas, associate dean, Graduate School of Business and Public Administration; Ernest N. Warren, associate dean, Law School; Norman Penney, dean of the Faculty, *ex officio*; Robert M. Cotts, secretary of the University Faculty, *ex officio*; and Byron G. McCalmon, registrar and secretary of the Committee, *ex officio*.

Admission and Finances

Admission to Cornell

The first step for a United States or Canadian citizen toward entering an *undergraduate* college or school is to write for an application form to the University Office of Admissions, 247 Day Hall, Cornell University, Ithaca, New York 14850. (Students interested in the Veterinary College should also write to this address.)

Correspondence regarding entrance to the Graduate School, the Law School, the Medical College, the Graduate School of Medical Sciences, the School of Nursing, the Graduate School of Nutrition, or the Graduate School of Business and Public Administration should be addressed to the persons indicated in the various University sections, pp. 7–34. (Please note that the Graduate School of Medical Sciences, the Medical College, and the School of Nursing are all in New York City.)

Any foreign national studying in the United States who does *not* hold a permanent resident visa is defined by Cornell University as a foreign student. Students holding the following visas fall under this category: F-1, A-1, A-2, G-1, G-2, G-3, G-4, E-1, E-2, H-1, H-4, J-1, J-2, and B-2. Foreign students (except Canadians) must fill in different application forms obtainable by writing to Miss Cynthia Fish, International Student Office, 200 Barnes Hall, Cornell University, Ithaca, New York 14850.

Applicants themselves may not determine whether they are foreign students. This is determined by the visa status.

General Admission Policy

Of Cornell University's fifteen colleges and schools, seven offer instruction at the undergraduate level. They are: Agriculture and Life Sciences; Architecture, Art and Planning; Arts and Sciences; Engineering; Hotel Administration; Human Ecology; and Industrial and Labor Relations. Each of these divisions is limited in the number of students it can accommodate. The number of applicants with minimum qualifications exceeds the number that can be admitted, and that creates a highly competitive situation among candidates. Selected each year are those who, in competition with others seeking admission at the same time, have best demonstrated by their superior qualifications that they deserve acceptance. It should be clearly understood that each candidate may apply to only one division at one time and competes only with those seeking entrance to that division of the University. The professional divisions in particular must restrict their selections to those who, having met all other qualifications, appear well fitted for the particular field of work to which the course of study is directed.

Transfer from one division to another after enrollment may be difficult for two reasons:

1. different divisions have different admission requirements, and a student acceptable to one is not necessarily acceptable to another; and
 2. students who transfer from a state unit to an endowed unit must pay back the difference in tuition for the credits transferred (see p. 47).

Transfer into the College of Arts and Sciences may not be accomplished until one year after matriculation. The selection of the proper division is therefore most important. A candidate should make his choice only after careful thought, investigation, and consultation with those familiar with his abilities and interests. Secondary school advisers should definitely be consulted. The Cornell Office of Admissions, also, is always ready to help prospective applicants.

It is the policy of Cornell University actively to support equality of educational opportunity. No student shall be denied admission to the University or be discriminated against otherwise because of race, color, creed, religion, national origin, or sex.

Scholarship

As an educational institution, Cornell University is devoted primarily to the intellectual development of its student body. Those selected for admission must have demonstrated, without question, the intellectual capacity to carry the classroom work and to profit from the instruction offered in the division of the University to which application is made. Intellectual preparedness for study at Cornell is judged mainly by the candidate's secondary school record, the recommendations of school authorities, and standardized college admissions tests.

Extracurricular Activities

To supplement but not replace the basic requirement of demonstrated intellectual capability, evidence of the candidate's ability to make effective use of his free time is an important consideration in admissions decisions. This

factor is judged by the character and quality of the student's participation in the extracurricular activities associated with his school and his community, and by the use he has made of summer vacations. Work experience related to the candidate's educational objective is particularly valuable.

Character, Personality, and Motivation

The intangible but important factors that form good character and an effective personality all receive full consideration by the selection committee. Evidence of a sound motivation for attaining higher education in general and for pursuing a specific field of education is also desirable. Capacity for leadership and concern for others receive due weight. Those factors are usually judged by the report from the applicant's secondary school and by interview reports, when available. Some University divisions require interviews, whereas in others the need for an interview is left up to the applicant. Interviews are also conducted by alumni secondary school committees operating in many sections of the country; such contacts are often helpful in providing the candidate with additional information about Cornell.

Geographical Distribution

Cornell University draws its students from all parts of the United States and ninety-one foreign countries. The University is proud of the cosmopolitan and democratic makeup of its student body. It believes in the educational values inherent in bringing to the campus persons of widely different backgrounds and directs its admissions policies to the furtherance of these objectives.

The New York State-supported divisions—the College of Agriculture and Life Sciences, the College of Human Ecology, the School of Industrial and Labor Relations, and the Veterinary College—recognize these same values within their student bodies and encourage applications from well qualified out-of-state students. Most of their candidates are, however, selected from

among applicants resident in New York State.

Some private divisions—the Colleges of Arts and Sciences; Architecture, Art, and Planning; Engineering; and the School of Hotel Administration—impose no restrictions as to residence. In choosing from among candidates of approximately equal qualifications, some preference may be given to those whose homes are in areas not adequately represented in the student body.

Children of Alumni

The University desires to include in the student body the children of its alumni who are qualified for admission. In choosing between candidates of approximately equal qualifications, including scholarship, extracurricular activities, character, personality, and motivation, the son or daughter of an alumnus may receive preference.

Special Opportunity Programs

Each year a limited number of students who, because of their economic and/or educational backgrounds, might not consider applying to Cornell are awarded financial assistance from the following public and University sources:

Federal Economic Opportunity Grants (EOG)

Federal College Work Study Program (CWSP)

New York State Higher Education Opportunity Program (HEOP) (for those applying to private Cornell units)

New York State Educational Opportunity Programs (EOP) (for those applying to state-supported Cornell units)

Cornell Committee on Special Educational Projects (COSEP)

Financial aid programs are open to any student meeting aid program specifications. Federal programs assist those meeting specified economic guidelines whereas New York State programs assist state residents meeting both lower

economic and lower educational guidelines. COSEP assists minority students, particularly from minority groups which have historically been underrepresented in higher education (Black, Native American, Puerto Rican, etc.). As the amount of financial need per student as calculated from the Parents Confidential Statement (PCS) is high, most awards will consist of combinations of scholarship, loan, and job aid during a student's undergraduate years. Because of limited resources and Cornell's close state tie, New York State residents have some degree of preference.

Those who wish to be considered for any of the above programs should be sure when submitting their Cornell admission and financial aid applications to follow the special instructions which apply to the programs. (Such instructions will be included in the *Guide for Candidates* which accompanies each set of application material.)

As available funding is limited under these programs, those who most closely meet the guidelines will be selected.

Admission of Freshman Applicants **Applications**

The Cornell admission application, consisting of form 1 and form 2, furnishes the University with a wide variety of information concerning the candidate, including his academic record and achievements, family background, work experience, and activities. Following submission of his application (form 1), the candidate receives from the University form 2 of the application and the Secondary School Report. The Secondary School Report, relating to the candidate's intellectual ability, character, and academic record, should be given to the proper school authorities for completion. It will then be submitted directly to Cornell by the school.

An application for those who wish to apply for financial aid is included with form 1 and must be submitted with form 1 by the application due date.

Cornell does not require teacher recommendations for freshman candidates and does not include in the application packet forms for this purpose. (An exception is that the College of Human Ecology uses a recommendation form which is quite often completed by a teacher.)

General Requirements

A candidate for admission as a freshman must satisfactorily complete secondary-school subjects carrying a value of at least sixteen entrance units. The subjects in which these units may be offered, the number of units that may be credited in each subject, and the units required in specific subjects by the several divisions of the University are listed in detail with each school in the section titled The Colleges and Schools, pp. 7-27.

To enter Cornell, a student must be at least sixteen years old and have a satisfactory knowledge of the subjects required for admission. That knowledge may be demonstrated in two ways:

1. by presenting an acceptable school record; and
2. by presenting acceptable ratings in tests given by the College Entrance Examination Board or the American College Testing Program as specified in consultation with the Cornell Office of Admissions.

Entrance Unit Credit

In the section titled The Colleges and Schools, each division that accepts freshman applicants has prescribed the number of entrance units for that division, with some subjects either recommended or definitely required. To be eligible for consideration by the selection committee, a candidate must demonstrate satisfactory knowledge of the subjects required; the secondary school record is usually the principal factor in determining this eligibility.

Entrance unit credit will normally be granted only in those subjects in which the candidate attains the passing mark of the secondary school, except in a

sequence course such as English or a language, in which case credit for the full sequence will depend upon attaining the passing mark of the school in the final year of the sequence.

Application Due Dates

Applications for admission (form 1) and financial aid in September 1974 must be submitted by the following dates.

January 15

Agriculture and Life Sciences
Architecture, Art, and Planning
Arts and Sciences
Human Ecology
Industrial and Labor Relations

February 1

Hotel Administration

February 15

Engineering

Form 2 of the application should be returned to the Office of Admissions within two or three weeks after its receipt.

Assembling complete records for all candidates takes considerable time, and the careful review of applications is a long, detailed process. The application due dates have been set to provide adequate time to process and review applications. It is to the candidate's advantage to return promptly all application materials. (See also the section Financial Aid, p. 47.)

Early Decision Plan

The College of Agriculture and Life Sciences, the College of Arts and Sciences, the College of Engineering, and the School of Hotel Administration offer an Early Decision Plan to a limited number of highly qualified high school seniors whose college preference is Cornell. The Plan is open to both men and women. Students interested in the Plan submit the Application for Admission Form 1 and Early Decision Request Form part 1 (to be completed by candidate) and part II (to be completed by counselor) by November 1 of the senior year.

Candidates are notified of the University's decision, including financial aid, by the middle of December. Those not selected for early acceptance but who seem to be qualified for further consideration during the regular review process are notified that action on their applications has been postponed. The Scholastic Aptitude Test of the College Board (taken no later than November of the senior year), or the American College Testing Program* examination (taken no later than October of the senior year) is required. Candidates should write to the University Office of Admissions for a special leaflet about this program.

Early Admission

Each year a few students request consideration for admission after only three years of secondary school. Some of these students receive a high school diploma by completing all requirements in three years; others leave school lacking one or a few credits. Admissions Committees will give serious consideration to those applicants who have exhausted the offerings of their secondary schools and who, in addition, give a clear indication of a level of maturity sufficient to make early college entrance desirable and appropriate. Those students who have the opportunity to take advanced, accelerated, or college-level courses during their fourth year in secondary school are usually encouraged to do so unless this action would inhibit the development of some academic strength.

Since there is variation from one Cornell division to another regarding early admission, a student applying for this is encouraged to write to the college of his choice at Cornell or to make an appointment for an on-campus interview to discuss his plans and reasons for wishing to enter early.

*ACT is not acceptable for Hotel Administration candidates.

Required Interviews

Admissions interviews are *required* by three divisions of the University—the College of Architecture, Art, and Planning; the School of Hotel Administration; and the School of Industrial and Labor Relations. *Before* requesting admissions interviews, students should consult the *Announcements* of these divisions and follow the suggested procedures therein.

Optional Interviews

Interviews for the College of Agriculture and Life Sciences may be scheduled Monday through Friday from 10:00 a.m. to 12:00 noon and from 2:00 p.m. to 4:00 p.m. On-campus interviews cannot be scheduled from January 15 through April 15. No interviews are scheduled on Saturdays.

The College of Arts and Sciences offers two alternatives for meeting with representatives of the College. On Saturdays from 9:30 to 10:30 a.m., except during June, July, and August, and from January 15 through April 1, an Admissions Seminar is held to accommodate everyone who wishes to visit the campus on weekends. Personal conferences may be scheduled Monday through Friday from 10:00 a.m. to 12:00 noon and from 2:00 p.m. to 4:00 p.m. except from January 15 through April 1. Students may write to the Arts and Sciences Interview Appointment Secretary, 150 Rockefeller Hall, for the leaflet entitled *College of Arts and Sciences Interviewing Procedures*, which explains the seminar and the personal conference.

The College of Engineering urges students to visit the campus for an interview if possible. Students interested in the College may request interviews weekdays from 10:00 a.m. to 12:00 noon and from 2:00 p.m. to 4:00 p.m. on a year-round basis (except on holidays). Saturday interviews are possible from 9:00 a.m. to 12:00 noon except during July and August when there are no Saturday interviews.

Group meetings for students interested

in Human Ecology are scheduled weekdays at 10:30 a.m. and at 3:00 p.m. except from January 15 through April 15 and holidays. There are no Saturday meetings.

All interviews are by appointment. Interested students are encouraged to write suggesting a date and time, and alternates if possible, at least three weeks in advance of the date requested. Each undergraduate division arranges its own interviews and group meetings, and students should get in touch with the interview appointment secretary at the address or phone number listed below.

*Agriculture and Life Sciences, 195
Roberts Hall (607/256-2057)*

*Arts and Sciences, 150 Rockefeller Hall
(607/256-4833)*

*Engineering, 221 Carpenter Hall
(607/256-5008)*

*Human Ecology, N101 Van Rensselaer
Hall (607/256-5471)*

Selection Process and Notification

Admission to each separate division of Cornell University is based on a careful review of all credentials presented on behalf of a candidate and is on a competitive basis. A committee in the school or college to which the candidate has applied selects those it considers best qualified from among all who have applied for that division.

Four divisions of the University—the Colleges of Agriculture and Life Sciences, Engineering, Human Ecology, and the School of Hotel Administration—follow a policy of “rolling admissions.” Decisions are reported to applicants over a period of time, with some letters going out as early as February 1, but with most of them mailed during March and the first half of April. The selection committee in each of these divisions has a large number of applications to review, and the fact that some applicants hear from Cornell considerably later than others is likely to mean simply

that consideration of their applications has been delayed by the time-consuming process. In short, one should not infer that relatively late notification has anything to do with how Cornell regards the quality of the applicant.

Applicants for the College of Architecture, Art, and Planning; the College of Arts and Sciences; and the School of Industrial and Labor Relations are all advised of the outcome at the same time. Notices are mailed about mid-April.

Most financial aid notification announcements are also mailed about mid-April to candidates for all divisions.

Every candidate for admission to an undergraduate course who receives notice of approval of his application must pay a registration fee of \$50 (see the section University Charges on pp. 45–46). Each such candidate will be advised of the due date of this fee at the time an acceptance for admission is sent to him.

If a candidate withdraws before the due date of his registration fee, the fee will be refunded. No refund will be made to an applicant who withdraws after the due date of the fee; in such case the whole fee will be retained by the University in payment of its costs and intangible losses resulting from the withdrawal.

Subject and Test Requirements for Admission

Detailed information regarding subjects, tests, and other requirements may be found under the individual college and school heading in the section The Colleges and Schools, pp. 7–27.

College Entrance Examination Board Tests

Freshman candidates are urged to take the College Board tests in December, but no later than January in any case, for fall entrance. They must request the College Entrance Examination Board to send the official score report to Cornell University. Scores reported on

school transcripts or in other ways are not acceptable.

Candidates may obtain application forms for these tests either through their schools or by writing directly to the College Entrance Examination Board at Box 592, Princeton, New Jersey 08540, or Box 1025, Berkeley, California 94701.

American College Testing Program Tests

All divisions, except the School of Hotel Administration, will accept the results of the American College Testing Program as either a partial or complete substitute for the College Entrance Examination Board tests.

Candidates for fall entrance are urged to take the tests in October or December. Registration packets may be obtained from secondary schools or from the American College Testing Program, P.O. Box 168, Iowa City, Iowa 52240, or 216 Goddard Blvd., King of Prussia, Pennsylvania 19406.

Candidates must ask the American College Testing Program to send the official score report to Cornell University. Scores reported on school transcripts or in other ways are not acceptable.

New York State Regents Examinations

The Regents Examinations, prepared by the New York State Education Department, are not required by any division of the University. They are particularly desired, however, of applicants from New York State who are candidates for admission to the College of Agriculture and Life Sciences or the School of Industrial and Labor Relations, and they are useful in the evaluation of candidates for the other divisions as well.

Health Requirements

Each entering student (undergraduate or graduate) is expected to assume personal responsibility for fulfilling the following health requirements adopted by the Cornell University trustees. Permission to register for a new semester will not be granted unless all health

requirements pertaining to the previous semester have been fulfilled.

A satisfactory certificate of immunization against smallpox, on the form supplied by the University, must be submitted before registration. It will be accepted as satisfactory only if it certifies that within the last three years a successful vaccination has been performed. If this requirement cannot be fulfilled by the student's home physician, opportunity for immunization will be offered by the Cornell medical staff during the student's first semester, with the cost to be borne by the student. If a student has been absent from the University and if he has not been vaccinated within the past three years, immunity will be considered to have lapsed, and a certificate of revaccination must be submitted.

Every undergraduate student is required to have a chest X ray. Opportunity is given to satisfy this requirement during the student's first week on campus. When a student who has been away from the University for more than a year wishes to reenter, he must, at his own expense, again fulfill the chest X-ray requirement. A chest X-ray is *not* required of graduate students.

Each student is required to submit a health history and to have a medical examination. (This applies also to special students who must meet other medical and health requirements such as physical education and military training.) A student accepted for admission will be sent forms to be filled out by his home physician and returned promptly to the Gannett Medical Clinic. A University physician will review the material before it becomes part of the student's permanent health record. All information given is confidential. After arrival at Cornell, if the medical history indicates a need, a student will be given an appointment to consult a physician at the Clinic. When a student has been away from the University for more than a year, he must, upon re-entrance, submit an interim health history on a University form.

Undergraduate students, including special students enrolled in one-year or two-year courses, are required to be immunized to tetanus through use of tetanus toxoid. The University has adopted this rule because the most effective way of protecting against serious infection resulting from injuries is through tetanus toxoid immunization. Immunity through toxoid offers the advantage of protection without risk of antitoxin reaction. Active immunization shall be acquired within five years prior to initial registration unless the student's home physician is unable to give the toxoid. If there has been no previous immunization, an original series of two or three doses, depending on the type used, spaced at least one month apart, will be necessary. This will be followed by a booster dose one year later. If there has been previous immunization, reactivation by a single booster dose is required for entrance to Cornell. After entrance, a booster dose will be given whenever medically indicated. Certification of immunization by the student's home physician is to be reported on the immunization form supplied by the University. Students unable to obtain the immunization at home will be given the opportunity, during the first semester, to obtain it from the Cornell medical staff or any Ithaca physician. If it is received from the Cornell staff, a charge comparable to the average physician's fee will be made. Opportunity will also be given to obtain the booster dose that is required one year later, as well as any further booster doses as recommended by recognized medical authorities.

While it is not required, it is strongly recommended by the University Health Services that all graduate students have immunization against tetanus before entering the University. The Health Services will make available at the Gannett Clinic initial immunizations and all booster tetanus toxoid immunizations at a nominal charge.

Advanced Placement for Entering Freshmen

Prospective entering freshmen who have taken college-level courses in secondary school or in a summer or an academic-year college program, and those who score well on the College Board College Level Examination Program (CLEP) or the United States Armed Forces Institute exam (USAFI), have the opportunity to qualify for advanced placement (and often for advanced standing credit) in many areas of study.

In general, those who wish to be considered for advanced placement or credit should plan to take the appropriate Advanced Placement Examination(s) of the College Entrance Examination Board in May. Some departments offer their own examinations at entrance, however, as an alternative or supplementary method of seeking advanced placement or credit.

A leaflet describing advanced placement is available from the University Office of Admissions.

Admission of Transfer Students

Students who have attended another college or university may apply for transfer to any of the undergraduate divisions at Cornell. Because the requirements vary from one division to another, prospective transfers are requested to consult the transfer sections in the *Announcement* for the appropriate college. There is also a leaflet entitled *Transfer to Cornell University* available from the Office of Admissions, 247 Day Hall. This contains complete instructions and will be mailed to each candidate when the transfer application is received. If possible, however, a prospective transfer should read this before submitting his application.

Transfer applications are available from the Office of Admissions, 247 Day Hall, and must be returned by the following dates for transfer in September 1974:

January 15

Architecture, Art, and Planning
Human Ecology

February 1

Hotel Administration

March 15

Agriculture and Life Sciences
Industrial and Labor Relations

April 15

Arts and Sciences
*Engineering

All divisions except Architecture, Art, and Planning also consider transfer applications for the spring term. The deadlines for filing spring term applications are November 1 for Agriculture and Life Sciences, Arts and Sciences, Hotel Administration, and Human Ecology; November 15 for Engineering, and Industrial and Labor Relations.

Some transfer candidates are eligible for limited financial aid. A financial aid application form is included in the second packet of material which is sent after the first part of the completed application (Form I) is on file.

Each applicant will be asked to furnish supplementary information including secondary-school academic credentials. A standard secondary-school report form will be sent to the applicant for transmittal to his high school. Interviews are required by the College of Architecture, Art, and Planning, and the School of Hotel Administration. The School of Industrial and Labor Relations requires an interview and a 500-word essay.

Transfer applicants should also be prepared to furnish transcripts of all work completed at the college level. For students wishing to be admitted in *September*, the transcript should include work taken the prior fall term plus a listing of courses being taken during

the spring term. For students wishing to be admitted in *January (spring term)*, the transcript should include work taken through and including the previous summer, plus a listing of courses being taken during the fall term.

An admitted transfer student will be required to submit a transcript of *all* college work completed prior to entrance.

Test requirements (College Board and ACT) are outlined in the leaflet *Transfer to Cornell*.

Although students from community colleges and other two-year college programs may apply to any division of the University, the Colleges of Agriculture and Life Sciences, Arts and Sciences, Engineering, and Human Ecology, and the School of Industrial and Labor Relations particularly encourage applicants from these programs. Students should write to the chairmen of the admissions committees of these divisions for information pertaining to admissions procedures, financial aid, and advanced standing.

Because of the competitive nature of the academic program in the College of Arts and Sciences, candidates for sophomore standing should have taken freshman programs consisting of courses similar to those in the College of Arts and Sciences, permitting easy integration with the undergraduate curriculum. Candidates for junior standing will be expected to have fulfilled most of the language and distribution requirements of the College and to have met the prerequisites of the intended major. Candidates for second-semester freshman status are not eligible for spring term admission.

Special Students

Each year most divisions enroll a number of special or nondegree students, including, in some instances, students who wish to spend their senior year at Cornell while earning a degree at another institution. Because of the unique nature of such programs, students are

*Applications will be accepted by Engineering after April 15 as long as transfer places remain to be filled.

encouraged to refer to the *Announcements* of the individual colleges for specific information.

The College of Arts and Sciences offers to students at four-year colleges, a special program which is intended to give candidates an opportunity to spend their junior year at Cornell on a full-time, nondegree basis. The program is especially attractive to students who attend colleges which do not offer curricula comparable to that of the College of Arts and Sciences. For information regarding this program, students should write directly to the Office of Admissions, College of Arts and Sciences, 150 Rockefeller Hall, Cornell University, Ithaca, New York 14850.

Expenses

The costs of attending Cornell fall into two general categories. The first category includes certain fixed charges for tuition, fees, and deposits, and related charges for services provided by the University. The second category includes living costs and items of personal expense. To make a realistic estimate of his financial needs at Cornell, the prospective student should note carefully each of the sections that follow.

University Charges

Students entering the Ithaca divisions of the University should familiarize themselves with the charges made in the college or school in which they plan to enroll and with the rules governing payments as given in the pages following. Table I lists the tuition paid *each term* by students in the Ithaca divisions of the University (there are two terms in the normal academic year). Tuition and fees in the Medical College and the School of Nursing in New York City are listed in the *Announcements* of those divisions.

Table 1. Tuition

<i>College, School, or Division</i>	<i>Tuition Each Term</i>
Agriculture and Life Sciences:	
Resident*	\$ 675
Nonresident	975
Architecture	1,590
Arts and Sciences	1,590
Engineering	1,590
Graduate School:	
with major field of study in an endowed division	1,590
with major field of study in Agriculture and Life Sciences, Human Ecology, Industrial and Labor Relations, or Nutrition	775
with major field of study in Veterinary	975
Graduate School of Business and Public Administration:	
First-year student	1,700
Second-year student	1,600
Hotel Administration	1,590
Human Ecology:	
Resident*	675
Nonresident	975
Industrial and Labor Relations:	
Resident*	675
Nonresident	975
Law School	1,500
Medical College‡	1,340
Graduate School of Medical Sciences‡	1,590
School of Nursing‡	975
Summer Session and Extramural (tuition per credit hour)†	80
Unclassified Students	1,590
Veterinary:	
Resident*	975
Nonresident	1,275

*A resident is a person whose domicile is in the state of New York at the time of registration for the term.

†Approximate amount

‡In New York City

In addition to the charges listed in the table, certain financial obligations should be carefully noted and taken into account in the student's budget of expenses for the term in which they are due.

An application fee of \$20 must be paid at the time an application for admission is submitted to any division except the Law School where the fee is \$15. The fee is nonrefundable.

A registration fee of \$50 must be paid at the time the applicant receives notice of acceptance from any of the following divisions: Agriculture and Life Sciences; Architecture, Art, and Planning; Arts and Sciences; Engineering; Graduate School; Graduate School of Aerospace Engineering; Graduate School of Nutrition; Human Ecology; Hotel Administration; Industrial and Labor Relations; Unclassified; and Veterinary. The fee is nonrefundable and does not apply toward the first term's charges.

A fee of \$100 must be paid at the time the applicant receives notice of acceptance from the Graduate School of Business and Public Administration or the Law School. The fee is nonrefundable, but when the applicant first registers in the University, \$50 of the fee is applied to the first term's charges.

Payment of University Bills

The Bursar's Office mails statements at the beginning of each month to the home addresses of students who incur charges and to students who have unpaid amounts due the University.

Tuition (except tuition charges for students registered in the Graduate School) and room charges are billed on a per term basis approximately one month prior to the beginning of each term. Students registered in the Graduate School receive a tuition bill with their registration material which is payable within the first ten days of the term. Charges not billed on the first statement

will appear on a subsequent monthly statement.

All charges are payable in full upon issuance of the statement. Any amounts remaining unpaid, in whole or in part, after fifty days from the statement date on which the charges first appeared, will be assessed a finance charge, computed from the first billing date, at the rate of 1 percent per month (12 percent annual percentage rate).

Cornell University does not offer, and neither is it associated with, a time payment plan for payment of educational expenses. University charges may be paid at the convenience of the individual, subject to finance charges outlined above.

A student's registration in the University is subject to termination unless all charges incurred for or during a term are paid within ninety days from the regular registration day for the term.

An individual who has outstanding indebtedness to the University will not be allowed to register or reregister in the University, receive a transcript of his record, have his academic credits certified, be granted a leave of absence, or receive a degree.

The amount, time, and manner of payment of tuition, fees, or other charges may be changed at any time without notice.

Refunds

Part of the amount personally paid for tuition will be refunded if the student obtains an official certificate of Leave of Absence or Withdrawal at the office of the dean or director of the academic division in which he is enrolled. Students who terminate their registration in the University during a regular term in this manner will be charged tuition from the registration day to the effective date of the certificate as follows: first week 10 percent, second week 20 percent, third week 30 percent, fourth week 40 percent, fifth week 60 percent, sixth week 80 percent, seventh week

100 percent, except that no charge will be made if the effective date is within the first six days, including registration day. No part of the application or registration fees is refundable.

Excess Hours Tuition

Students in the four statutory divisions who wish to take courses in the endowed divisions beyond the hours allowed free under the rules of those statutory divisions, may be allowed to do so on payment for the additional hours of instruction at the rate of tuition in the college in which the instruction is given.

Transfer Tuition

Any student transferring from one college (or course or courses) in the University to another must, on or before the time of transfer, pay an amount corresponding to the difference in tuition for the hours of credit that will be allowed in the latter college (or course or courses).

Special Fees

The following fees are imposed under certain conditions: late registration, \$10; makeup examination, \$10; late filing of study card, \$10; late change of program, \$10; failure to check out chemistry desk, \$5.

Estimate of Living Costs and Items of Personal Expense

The figures below are estimates of specific expenses for the regular academic year of two terms. They do *not* include tuition and certain fees, all of which are given in detail on pp. 45-47. Students should also add their own travel expenses to the estimated total.

Room and food costs	\$1,500
Registration deposit	50
Books and equipment	650
Personal allowances	
Laundry and cleaning	
Total (average) expenses	\$2,200

Financial Aid

Most students plan to finance their education through a combination of savings, help from home, and summer earnings. The section on expenses (pp. 45-47) should be examined carefully. An entering freshman who needs supplementary funds should have clearly in mind the additional amount needed in his particular case.

Academic ability as indicated by the candidate's secondary school credentials, and by test scores of the College Entrance Examination Board, is of primary importance in the selection of financial aid winners. In many cases, extracurricular achievement and promise of leadership are important. Although recipients of financial aid are selected on those criteria, the *total amount awarded* is based on remaining need once an appropriate expectation from student, family, and other resources has been deducted from the student's anticipated budget.

A typical award involves part scholarship plus loan and/or job help. The trend is toward such package awards, although candidates with exceptionally strong qualifications are likely to have a better scholarship-loan ratio in their award.

Scholarships offered to freshmen vary in value depending on the winners' need and promise. University loans are limited to \$1,500 a year, National Direct Student Loans are limited to \$1,500 per academic year, and job opportunities vary in value from \$500 to \$700 a year. In addition many students are referred to the Guaranteed Student Loan Programs, which are administered through banks in most states. Virtually all awards may be held for the normal period of years required for an undergraduate degree, with continued financial need and satisfactory academic progress.

New York State candidates interested in the New York State Regents scholarship program should apply to local school authorities or to the Commissioner of Education, Albany, New York 12201, for

details. Winners are not exempt from any of the rules governing admission to the University; they should therefore apply for admission at the normal time and should be prepared to satisfy the regular entrance requirements.

Applications for Financial Aid

A financial aid application is included with each application for admission. It is to be completed by each candidate who wishes to be considered for financial assistance (scholarships, loans, jobs).

If a student is under 25 or a nonveteran, it will be necessary for him to submit a Parents' Confidential Statement (forms obtainable from secondary-school guidance offices). The Parents' Confidential Statement should be sent to Princeton, New Jersey, no later than January 1 to allow for processing time.

If a candidate applies for financial aid after January 15, he will be at a serious disadvantage because of the nature of the financial aid selection process.

Special Opportunity Programs

Those students who would ordinarily not apply to Cornell, because of economic or educational backgrounds, may receive financial assistance from public and/or University sources. See p. 38 for a list of programs and further information regarding special opportunities.

University Life

The University Senate

The Cornell University Senate, now in its fourth year of existence, functions as a major legislative and policy-making body in matters of general concern to the campus community. It was formally established in February 1970, the outgrowth of proposals made by a Constituent Assembly, a larger group created the year before amid campus unrest to consider ways to improve the governance of the University.

The Senate provides for a total of 140 senators apportioned as follows: sixty students to be divided proportionately between graduates and undergraduates; sixty faculty representatives chosen from the various schools and colleges, proportional to the number of faculty in the schools and colleges; two alumni elected by the alumni; the University provost; one University vice president elected by the vice presidents; three nonprofessorial academics who do not have faculty status; four exempt employees elected at large by their constituency; and nine nonexempt employees.

Functioning as *ex officio* members of the Senate with all privileges except voting are the president of the University, ten other members of the central administration, the deans of the various schools and colleges, the director of the Africana Studies and Research Center, and the following persons elected to the University Board of Trustees: one faculty member elected by the students for a

two-year term; and four students, each serving a two-year term. One student is elected annually by the students-at-large, and one is elected annually by the student members of the Senate. In addition, the constitution calls for the election of up to four persons from outside the University for four-year terms—the initial four are to be elected one each year for four consecutive years. There are currently two trustees from outside the University on the Board of Trustees.

The Senate has three officers: the speaker, the secretary, and the chairman of the executive committee. The three major committees elected by the Senate are the executive committee, the committee on campus life, and the committee on committees.

The committee on campus life and its subcommittees originate Senate policies and actions required to carry out the intent of the University's Division of Campus Life. The committee on committees is responsible for staffing all Senate committees except those for which procedures are specified by the constitution, by-laws, or internal rules of the Senate.

Student Conduct

Cornell approaches the problem of maintaining an environment where "any person can find instruction in any study" by providing a Campus Code of Conduct whose requirements and obligations

apply to all members of the University community—faculty and staff as well as students. The learning environment is not simply the classroom: a Cornell education is the sum of an individual's experiences while attending the University. Its excellence derives from the freedom of each person to teach, learn, and pursue his or her own educational goals. With this freedom goes the responsibility to allow others to pursue their goals and to respect the private life of each member of the community.

Anarchy is not conducive to an intellectual or educational atmosphere. In order to pursue educational goals, persons must be convinced that the institution not only provides for their intellectual needs, but also that it protects their health, safety, and human rights. Cornell has a special set of interests distinguishable from those of society at large. Accordingly, it seeks only to regulate conduct that affects the ability to attain and protect these interests. While there is some inevitable duplication of public laws, Cornell does not proscribe conduct unless it occurs within its own community boundaries and affects the goals of the University community. As a general principle, the enforcement of society's laws is left to that society, and there is no thought of substituting University processes for them.

Authority to provide campus codes of conduct and the necessary judicial system for nonacademic areas of campus life is given by the University Trustees to the University Senate. (Academic matters remain the prerogative of the faculty, which has adopted a code of academic integrity and the mechanism to enforce it.) The Senate has passed two principal documents that affect conduct. (Many special interest groups such as the Interfraternity Council, intramural athletics, and living units still have their own regulations.)

The Campus Code of Conduct, which includes the Regulations for the Maintenance of Public Order required by the legislature of all colleges and universities in New York State, generally governs

conduct of all members of the community. The Statement of Student Rights is intended to ensure equal treatment of students within the Cornell community. It makes special note of students' rights to study, speak, associate, listen, have private records and private quarters, to be treated with due process, and to have grievances redressed. Each student, faculty member, and employee at Cornell receives a copy of the *Policy Notebook for Students, Faculty, and Staff*, which contains these and other documents, and all are expected to be familiar with its contents. The notebook makes clear the individual's obligations as a member of an educational community and establishes the consequences of failure to meet those obligations for which the individual is held accountable. A copy is mailed to each new student before classes begin.

Complaints alleging violations of these documents, or such other regulations as may apply, are considered by the Office of the Judicial Administrator (270 Olin Hall, telephone 256-4680) and, where appropriate, by the University Hearing and Review Boards. The judicial administrator is nominated by the University president and approved by the University Senate for a (renewable) two-year term. The Hearing and Review Boards are selected by the Senate from the student, faculty, and employee constituencies to give equal voting strength to each constituency. Cases referred to the Hearing Board are heard by panels composed of three members of the defendant's constituency and one member of each of the other two constituencies. The entire Review Board membership sits for an appeal of a hearing-panel decision. This board also reviews temporary suspensions administered by the president or his designated representative and has the power to vacate such temporary suspensions.

The entire judicial system is governed by strict adherence to the concept of procedural fairness. (Copies of the procedures of the judicial system and the boards are available from the judicial

administrator.) Cornell also has a judicial adviser (also nominated by the president and approved by the University Senate for a renewable two-year term), who provides free legal assistance to anyone accused of violating University rules and regulations. Alternatively, any defendant before the judicial system has the right to utilize an attorney.

University Unions

There are three University unions at Cornell: Willard Straight Hall, which has served student needs since 1925; the Agnes and Jansen Noyes Center, which was opened in the fall of 1967; and the North Campus Union, which opened in 1971.

Willard Straight Hall serves as a campus gathering point and a center for social, cultural, recreational, and educational activities for all Cornell students. It has facilities for dances, receptions, and other social gatherings; a theatre, a billiard and game room; a browsing library; lounges; a music room; a room for the exhibition of works of art; a craft shop with lessons in ceramics; dark-rooms; a barber shop; and offices and meeting rooms for student organizations. Among the many special services available for students are a central ticket office, a painting and phonograph record rental service, and a central reservations service for student activities. The Straight desk is a service center where newspapers, magazines, and sundries are sold. Checks up to \$25 may be cashed there. The desk is manned seventeen hours a day and offers an information service with a long tradition of finding the answer to any question about Cornell. Dining services include a cafeteria, a snack bar (the Ivy Room), a luncheon buffet (the Elmhurst Room), and rooms for private luncheons and dinners.

Noyes Center is located in the west campus residential area on Stewart Avenue. It provides numerous facilities and activities for members of the Cornell community, including a cafeteria, study lounges, meeting and seminar rooms,

a music listening room, a game room with table tennis and billiards, a television lounge, a pub, and an information and service desk selling sundries, newspapers, and magazines, and a mini-pickup (grocery store).

The North Campus Union is in the new residence hall complex located between Pleasant Grove Road and North Trip-hammer Road. Facilities include a mail center; a pickup area for laundry, dry cleaning, and shoe repair; a store that sells toilet articles, school supplies, gift items, cards, records, etc.; a craft shop with lessons in weaving, jewelry, metal craft, leather, macrame, tie-dyeing, printing, etc.; photographic darkrooms; television lounges; a recreation area with billiards and table tennis; a music listening room; browsing lounges; a multipurpose room; meeting rooms and offices for student organizations; music practice rooms; a nursery school; and a cafeteria, private dining rooms, and a tavern.

Special staff resources for students include coordinators for cinema, concerts, reservations, activities for blacks, graduate activities, and international activities.

The programs and activities available to students for extracurricular recreation and learning through University Unions are of primary importance. They are planned by students, faculty, and staff who are members of the Board of Governors of University Unions, the Program Board, three union boards, and the numerous committees and clubs which comprise University Unions, including Cornell Cinema and the Cornell Concert Commission.

General responsibility for determining policies and operating procedures for all three unions is in the hands of students through these boards. The services and activities support the educational objectives of the University, provide opportunities for personal relationships among members of the Cornell community, and fulfill the bequest of Willard Straight, who wanted to "... make Cornell a more human place."

University Libraries

The libraries on the Cornell campus are many and varied. They contain nearly four million books and provide up-to-date facilities for research and study in countless fields.

The central library, at the south end of the Arts Quadrangle, is composed of two parts. Uris Library, the building with the tower that has become the symbol of Cornell, is essentially an undergraduate library for students in the liberal arts. A principal aim of this library is to bring readers and books as close together as possible. Bookstacks are open to all, and only reserve books in heavy demand are held in a special category. There are listening rooms where students, singly or in groups, may hear recordings of the spoken word, and there is a lecture room with sound and projection capabilities.

Across the walk from Uris is the John M. Olin Library, devoted more specifically to graduate and faculty research. This closed-stack library houses many special collections of books and manuscripts, among them Rare Books, a collection on East and Southeast Asia, and another on the history of science, the archives of the University, maps, and newspapers.

The two libraries, Uris and Olin, complement each other in support of the University's program of teaching and scholarship. Besides this central facility, there is an extensive system of college, school, and department libraries. Chief among these are the Albert R. Mann Library serving the Colleges of Agriculture and Life Sciences, and Human Ecology; the Fine Arts Library serving the College of Architecture, Art, and Planning; the libraries of the College of Engineering and the New York State Veterinary College; and the libraries serving the Graduate School of Business and Public Administration, the Law School, the School of Hotel Administration, and the New York State School of Industrial and Labor Relations.

All of the libraries are open long hours, some of them until midnight. Many have special copying services, and some

publish handbooks and bibliographies that are distributed without charge.

Social and Cultural Activities

For those at Cornell with interests in particular fields, there are more than two hundred organized groups, which include both faculty and students in their membership. Among them are clubs for persons with similar academic interests or similar hobbies, local chapters of professional organizations, associations of students from other nations, and a number of national honorary societies that recognize achievement in scholarship and other fields of endeavor.

Music

Students who wish to participate in music making will find a wide range of opportunity through the Sage Chapel Choir, the Cornell Chorus, the University Glee Club, the University orchestras and bands, chamber music ensembles, the Opera Workshop, and other musical organizations.

The University Faculty Committee on Music sponsors programs by visiting soloists and major orchestras in the Bailey Hall Concert Series; string quartets and other groups in the Statler Series at Alice Statler Auditorium; and occasional operas, ballets, and special events. In addition, annually the Department of Music sponsors more than sixty free concerts and lectures by visiting artists or by Cornell faculty and students.

Theatre Arts

A wide range of dramatic production is presented by Cornell students under the sponsorship and general supervision of the Department of Theatre Arts. Six of these productions are presented as a "season" which is scheduled in advance and for which open tryouts are held at the beginning of each semester. Other more

informal productions are also scheduled throughout the year; invitations to participate in these productions are posted on the bulletin boards of Lincoln Hall. Productions are normally mounted in the range of facilities available in the University Theatre in Willard Straight Hall, the Drummond Studio in Lincoln Hall, and the Kaufmann Auditorium in Goldwin Smith Hall.

In addition to these theatre pieces, a series of dance programs is sponsored jointly by the Theatre Arts Department and the Department of Women's Physical Education. One of these programs is regularly scheduled in the "season" of productions offered in Willard Straight Hall.

Students are provided with film-making opportunities through the facilities of the Department of Theatre Arts and the Independent Film Makers at Cornell.

Athletics

At Cornell, athletics are designed to encourage the participation of every able-bodied student either in varsity sports or in the comprehensive intramural program. In addition to physical fitness, the work in athletics stresses the development of sportsmanship and a keen competitive spirit as enduring values that will be carried into later life. Cornell supports one of the largest intercollegiate athletic programs in the country and belongs to the Ivy League. There is intercollegiate competition for men in the following sports: baseball, basketball, crew, 150-pound crew, cross-country, fencing, football, 150-pound football, golf, gymnastics, hockey, lacrosse, polo, rifle, sailing, squash, soccer, skiing, swimming, tennis, track, and wrestling. Intramural and informal sports include badminton, basketball, billiards, bowling, boxing, broomstick polo, cross-country, fencing, golf, hockey, horseshoes, judo, sailing, skating, skiing, soccer, softball, swimming, table tennis, touch football, track, volleyball, and wrestling.

Cornell fields intercollegiate women's teams in more events than any other college or university in New York State.

The women's athletic program includes basketball, bowling, fencing, field hockey, golf, gymnastics, ice hockey, lacrosse, polo, sailing, skiing, swimming, tennis, and volleyball.

Publications

Cornell students edit and publish a year-book, the *Cornellian*; literary magazines; and a number of magazines relating to special fields of interest such as the *Cornell Engineer*, the *Cornell Countryman*, and the *Cornell Law Review*. Cornell students are also involved with the private publication of the *Cornell Daily Sun*.

Religious Affairs

"Freedom for all; domination by none" is the guiding principle under which religious affairs have flourished at Cornell since 1869. Anabel Taylor Hall provides office and meeting facilities for the religious programs described below. A diverse staff of more than a dozen pastoral counselors and advisers, available day or night for consultation, may be reached through the information office, room 118 (telephone 256-4214). This office also has information concerning worship opportunities in Sage Chapel, Anabel Taylor Hall, and the local churches and synagogue. Anabel Taylor Hall is the headquarters for CIVITAS (Cornell-Ithaca-Volunteers-in-Training-and-Service) through which students provide many services to local and regional community agencies. The Commons, a coffee-house in the building, helps keep open channels of communication between faculty, administration, and students, as they share concerns for a cohesive community. Three new organizational structures have succeeded Cornell United Religious Work (CURW) in sharing responsibility for the religious programs at Cornell.

The Office for the Coordination of University Religious Affairs administers and schedules the use of Anabel Taylor Hall by religious and other campus groups, provides information and counseling and referral services, serves as liaison between the Centre and the Council described below, and coordinates and interprets religious affairs at Cornell in cooperation with the University Senate's Subcommittee on Religious Affairs. This office is also charged with the administration of the Sage Chapel convocations held every Sunday the University is in session.

The Centre for Religion, Ethics, and Social Policy is a chartered, independent, educational institution that provides opportunities for faculty, students, staff, and religious organizations to investigate and analyze the relationships between belief systems and the development of social policy. Lectures, conferences, seminars, action projects, and publications are used as methods of dealing with religious, ethical, and ideological implications of social policy. The Centre works closely with other programs at Cornell which are similarly concerned with normative questions. It succeeds much of the united nondenominational phase of CURW's program of recent decades.

The Council of Federated Ministries coordinates and extends the interests and concerns of its member religious ministries at Cornell: Catholic, Christian Science, Episcopal, Evangelical, Friends, Jewish, Latter-day Saints, Lutheran, Muslim, Eastern Orthodox, Unitarian-Universalist, United Methodist, and United Ministry (Baptist, Disciples of Christ, United Presbyterian, Reformed, and United Church of Christ). Each ministry is autonomous, developing programs according to its aims, goals, and religious and moral persuasions. The Council provides continuing opportunity for joint programming and interreligious cooperation.

Motor Vehicles

Because of the limited number of on-campus parking spaces, the University does not encourage the use of motor vehicles but does recognize that in certain cases there may be important reasons why one is needed. Motorcycles and motor scooters, considered as motor vehicles, must be registered and are subject to all of the rules and regulations governing motor vehicles.

A student's registration in the University is held to constitute an agreement on his part that he will abide by its rules and regulations with regard to traffic and parking or be subject to the prescribed penalties. Every student who operates or parks a vehicle, or whose vehicle is operated or parked, at any time, on the grounds of the University must register the vehicle with the Traffic Bureau at registration or within five days of acquiring the vehicle. Registration and parking permits must be affixed and displayed as directed within 48 hours after they are issued. The applicant and the vehicle(s) being registered must meet all requirements prescribed by New York State for legal operation. Freshmen are not permitted to park on the campus at any time.

Because of necessity, parking and driving in the central part of the Cornell campus is restricted on weekdays between 7:30 a.m. and 5:00 p.m. During these hours no car without a special parking permit is allowed to enter the central part of the campus, nor may cars without permits park on the campus outside the central restricted area except in those areas specifically designated for visitors. At all other times, parking without a permit is allowed throughout the campus except in parking spaces specifically signed to the contrary. Overnight parking is prohibited from December 1 to April 1. Special area parking permits are issued after careful consideration by the Traffic Bureau. Extenuating circumstances

(physical disabilities, etc.) are the basis for the issuance of these permits.

A complete list of regulations is found in the pamphlet *Regulations Governing Motor Vehicles*, which is made available at registration. Correspondence regarding motor vehicles should be addressed to the Traffic Bureau, G-11 Barton Hall, Cornell University, Ithaca, New York 14850.

Housing and Dining

Residence Halls

The University provides a variety of residence halls accommodating approximately 5,400 students. These halls, located on both the North Campus and the West Campus, vary substantially in style and size.

The West Campus buildings are situated west of Willard Straight Hall, about a five-minute walk down the hill from the center of the campus. The halls which make up the Baker group are Gothic in style. They were constructed just after World War I. There is substantial variety in the sizes of units and in room arrangements, with singles, doubles, and a few triple-occupancy rooms included. The buildings accommodate about 550 students. Included in the Baker group are Baker Tower and Lyon Hall, which house women; Founders Hall, North Baker Hall, and South Baker Hall, which are coeducational; and Boldt Hall, Boldt Tower, McFaddin Hall, and Mennen Hall, which are occupied by men.

The University Halls are six in number. Each one provides accommodations for approximately 225 men and women. Included in this group are Class of 1917 Hall, University Halls 2, Class of 1922 Hall, University Halls 4, Class of 1926 Hall, and Sperry Hall, known as Sperry Community. Sperry Hall places special emphasis on community building through group activities and a wide

variety of special projects. Each hall has a lounge for study on every floor, and there is additional lounge and activity space on the main floor. The University Halls were opened in 1954 and are of a relatively contemporary design.

In the immediate vicinity of the Baker and University Halls groups is the Agnes and Jansen Noyes Center, one of three University unions on campus. This building provides dining services, including a popular pub, lounges, and other recreational and study facilities.

The North Campus buildings, which accommodate about 2,700 men and women, are a blend of the old and the new. The oldest, Prudence Risley Hall, which was opened in 1913, offers many different room sizes. It houses about 192 men and women, serving as a residential college for upperclass and graduate students who have a special interest in the creative and performing arts.

Located across the street from Risley Hall are the Balch Halls, which were built in 1929. These four connecting halls accommodate 355 women. The structure is built of native stone in the English Collegiate-Gothic style. Most of the rooms are doubles or adjoining singles. Lounge areas are on the first floor.

Clara Dickson Hall, completed in 1946, accommodates 450 students. It consists of two main divisions, Unit V and Unit VI, which house freshmen and upperclass men and women. Most of the rooms are singles.

Mary Donlon Hall, which was opened in 1961, provides accommodations for 475 men and women students on alternate floors. There are lounge areas on each of the six floors. Most rooms are doubles, but a few singles and rooms for four students are available on each floor. The main floor has generous lounge and recreational facilities.

Comstock Hall, located across the street from Risley, is composed of two small units, each housing about forty upperclass students. Rooms are ar-

ranged in suites for three or four persons.

The North Campus Student Residences are the latest additions to the University's housing facilities. These houses are contemporary both in terms of architecture and concepts for student living. All the buildings are used coeducationally. They include five low-rise buildings housing a total of 720 students and two high-rise houses, each accommodating 180. The houses are designed on a suite plan with six suites in a unit and include a small kitchen, living room, and a room for study. Each suite accommodates six residents in two double and two single rooms. A bathroom and storage closet completes each suite. In addition, each house has a main living room with adjacent kitchenette, laundry facilities, a typing room, and resident staff apartment. There are also several apartments primarily for faculty and staff.

The International Living Center, beginning its fourth year of operation, uses one of the low-rise units in the North Campus student residences. The Center brings together students interested in an internationally oriented community. These residents are mostly upperclass and graduate students.

Located in House 10, Ujamaa Residential College provides a locus for a community of students participating in a cocurricular program designed to study the problems of developing communities and to recommend practical solutions.

The North Campus Union is in the immediate vicinity of the North Campus student residences. This facility provides dining services and recreational facilities, a craft shop, a branch of the Campus Store, and the mail-distribution center for all North Campus student residences.

Hurlburt House (formerly the Residential Club), 1 Country Club Road, accommodates about one hundred men and women who share an interest in the promotion of sound ecological principles.

In addition to the larger halls there are eight small units which provide an opportunity for cooperative living arrangements. About 170 upperclass students can be housed in these units.

Although students are not subject to an on-campus residence requirement, nearly half of the undergraduate population elects to live in University residence units. Entering freshmen, especially, are strongly urged to apply for on-campus housing because adjustment to the Collegiate community and the demands of the academic program is usually made simpler by the experience of living with other students in a University setting. However, it is expected that the demand for space will exceed the supply. Therefore, all students are urged to apply immediately upon notice of their acceptance to the University, as assignment priority is established by the date an application arrives at the University.

Application forms for University residence halls will be mailed by the Office of Admissions to each candidate for admission as a freshman or transfer student at the time of notification of provisional acceptance to the University. A \$10 housing application fee must accompany return of the completed application.

Room contracts will be mailed to the entering student as soon as an assignment is made. A security deposit of \$60 (check or money order made payable to Cornell University) must accompany the return of the signed room contract. This deposit is refundable upon fulfillment of the contract agreement. The deposit bears interest on the student's behalf at the current applicable rate.

Graduate Students

The University has two residence halls especially for graduate students. The Sage Graduate Center accommodates 190 men and women; Cascadilla Hall houses 155 men and women. The dining service in the Sage Graduate Center is available to all graduate students

and faculty. Application forms for graduate housing will be enclosed with notification of acceptance to the Graduate School. Forms should be returned promptly as assignment priority is established by the date of receipt of the application by the University. A \$10 housing application fee must accompany return of the completed application.

Law Students

In September 1963, the Charles Evans Hughes Law Residence Center was opened. Connected to Myron Taylor Hall, which houses the Law School, the Center has facilities for about 118 single law students. Dining facilities are also located in the building. Matriculating law students will receive an application form with their acceptance letter from the Law School. A \$10 application fee must accompany return of the completed application.

Married Students

Unfurnished apartments for 420 married students and their families are provided by Cornell in the Cornell Quarters (81 apartments), Pleasant Grove (94 apartments), and Hasbrouck (245 apartments). Requests for further information should be directed to the Hasbrouck Housing Office, Pleasant Grove Road, Ithaca, New York 14850.

Off-campus Housing

Information on off-campus housing that is currently available is posted on a board at the Student Housing Assignment Office, 223 Day Hall. Because changes of available accommodations occur daily, it is not practical to prepare lists for distribution by mail. If possible, a student should make at least one trip to Ithaca to look over the available apartments and houses before he plans to take up residence.

Detailed information on all types of housing for students may be obtained by writing to the Student Housing Assignment Office, 223 Day Hall, Ithaca, New York 14850.

Dining Facilities

Cornell has no formal dining requirements for its students. The University maintains a number of dining services in various locations on campus, thus enabling students to eat what, when, and where they choose whether or not they live in University residence halls. Optional dining arrangements are offered as follows.

- 1 A Co-Op Dining Program, participation in which (one of four options) allows students to eat all they want at four Co-Op dining centers at a food-cost savings. Membership entitles students to become a part of the Co-Op Dining Advisory Council, which enables them to make recommendations regarding menus, decor, and service. For information, students should write to Co-Op Dining, 217 Day Hall, Cornell University.
- 2 The Risley Dining Program, which is primarily for students of the Arts College, is open to all. Information is available at 217 Day Hall.

The Department of Dining Services honors the Cornellcard, a credit card for those who do not wish to pay cash for each meal. The Cornellcard plan is administered by the Bursar's Office. Information is available from the Bursar's Office, 260 Day Hall, Cornell University.

Student Services

Office of the Dean of Students

The University, through the Office of the Dean of Students, maintains a staff of counselors and advisers available for personal conferences with both graduate and undergraduate students. The staff is prepared to help students with the routine problems that arise in the normal course of campus life and also with more personal individual problems. Referrals may be made to the other professionally trained members of the University and college staffs who are best qualified to be of special-

ized assistance for particular problems. Responsible adult and student resident advisers who live in the various residence halls and small housing units as members of the staff of the Office of the Dean of Students are also readily available to assist students.

The Office encompasses many varied functions. It provides individual and group counseling on personal and social problems, life assessment workshops and micro labs, and stress clinics. It serves in an advisory capacity for selective service and veterans' affairs, orientation of new students, and for the Student Finance Commission. It is the center for information regarding housing both on and off the campus, and student activities and organizations. It also advises student groups in program development and policy administration, and assists with leadership training. The staff of the Office is closely associated, in an advisory capacity, with student government organizations, fraternities, sororities, and many other extracurricular activity groups. In addition, the office is responsible for coordinating and developing programs for orienting new students to campus life academically, socially, and in the realm of extracurricular activities. It also sponsors sex and drug education programs for students.

Staff members of the several colleges within the University also give special attention to the orientation of their students. They provide counselors and advisers to assist their students in all matters connected with courses of study and academic pursuits.

Ombudsman

The Cornell University ombudsman will investigate complaints and hear grievances brought by anyone in the Cornell community about the University or anyone in it who exercises authority. In times of emergency the ombudsman operates a rumor control center.

The University ombudsman and staff, which consists of counselors and

various students, is on hand from 8:00 a.m. until 5:00 p.m. each day and at other times by appointment. The offices are at 201 Barnes Hall. The telephone number is 256-4321.

Health Services

The University Health Services provide facilities for comprehensive medical care of students. To help students achieve their educational goals the objectives are:

1. the diagnosis and treatment of illness (physical and emotional) with a minimum time loss from academic work
2. the prevention of acute physical and emotional disorders whenever possible
3. the development of an intelligent and realistic attitude toward health on the part of every student.

All undergraduate and graduate students regularly registered in the University are eligible for the University health services. The cost is included in the charges made to the student.

Outpatient care is centered in the Gannett Medical Clinic, 10 Central Avenue. Hospital care is given in the Sage Infirmary on Sage Place, with the entrance on East Seneca Street between Stewart Avenue and Schuyler Place, about five blocks from the edge of the campus.

The Clinic and Infirmary medical staff, under the supervision of the clinical director, consists of attending physicians from the University staff and of consulting physicians and surgeons in the various medical fields from Ithaca and vicinity.

A student may consult a physician at the Clinic whenever need arises. Appointments with doctors at the Clinic should be made by calling or going in person to the Clinic. An acutely ill patient will be seen promptly whether he has an appointment or not. An initial consultation with a medical specialist is provided when requested by a clinic physician. Further care by a specialist is the financial responsibility of the student.

Emergency Service. Students who need medical attention during the hours when the Clinic is closed may go to Sage Infirmary. If an accident or serious illness occurs, the physician on Emergency Service may be reached by calling 256-3493 during Clinic hours or 256-6962 after Clinic hours.

Hospitalization in Sage Infirmary for a maximum of fourteen days per term is covered by the fees charged. (A per diem charge is made if hospitalization extends beyond fourteen days.) Hospital service includes medical and emergency surgical care, as well as most laboratory and X-ray examinations indicated for diagnosis and treatment. Emergency surgery is done at Tompkins County Hospital. In providing these services the agreement between Tompkins County Hospital and Cornell is that the hospital will look to available insurance carried by the student, his family, or a responsible third party as the primary source of payment. Cornell will provide payment to the extent that other available sources do not cover charges during the first fourteen days. (Emergency surgery is defined as initial surgical procedure which, in the opinion of the clinical director, is necessary for the immediate welfare and safety of the patient.) The student fee does not include surgery for the correction of chronic remedial defects or obstetrical care. There is an additional fee for emergency house calls.

In providing these services, the University reserves the right to bill the student's employer or other third party, including a preexisting insurance carrier, legally responsible for providing hospitalization and medical care and to be subrogated to the student's right against these parties for the cost of these services when such liability exists.

A student in Sage Infirmary may, if he so desires, employ a private physician from the visiting staff. A student may also receive medical care from a private physician instead of going to the Clinic. The University does not cover the cost

of these private arrangements.

Prospective students are urged to have dental, visual, and other remedial defects corrected before entering the University.

If, in the opinion of the University authorities, the student's health makes it unwise for him to remain in the University, he may be required to withdraw.

Elective Student Accident and Sickness Insurance Plan

Insurance is available on a voluntary basis to supplement the services as outlined above. For example, hospitalization in Sage Infirmary in excess of fourteen days a term, and expenses for illness or accidents outside Ithaca both during the academic year and during vacation would be covered. Unless students have other insurance to supplement medical services provided by the University Health Services, they are strongly urged to take advantage of this plan. Information about this insurance may be obtained at the Gannett Medical Clinic, where a representative of the elective insurance company has an office.

Health Care Plan for Student Spouses

The University Health Services offers a prepaid health care plan for student spouses which is identical in benefits to the student health care. For the payment of a fee each term a student spouse is entitled to unlimited medical visits to Gannett Clinic, up to fourteen days each term for hospitalization in Sage Infirmary, and emergency surgical care. In addition, the Health Services will assume the cost of a first visit to a specialist when referral is made by a Health Services physician. Other services are available at reduced cost to those who participate in this program.

Students may enroll their spouses prior to or during the first thirty days of any term.

This primary care program is not to be confused with the Student Accident and Sickness Insurance Plan for Cornell students and their dependents. The student insurance supplements basic health care by providing twelve-month insurance coverage for students and dependents over and above benefits of the Health Services, and by protecting the student when he is away from the Cornell campus (including vacations).

Information and enrollment forms for the Student Spouse Prepaid Health Care Plan may be obtained by writing or visiting the University Health Services, Gannett Medical Clinic, 10 Central Avenue, Cornell University, Ithaca, New York 14850.

Educational and Vocational Guidance

Educational and vocational counseling begins in the separate colleges and schools. Each undergraduate is assigned a faculty adviser who will help him in the selection of courses which will give him the best preparation in his chosen field.

Students desiring assistance in the diagnosis of academic problems, selection of a curriculum, or determination of vocational goals may be referred to the University Guidance and Testing Center, 203 Barnes Hall, for an intensive program of testing and counseling.

Foreign Students

The University maintains an International Student Office. Foreign students are invited to write to that Office for any information they may need, or to consult the staff about any problems they may have. Upon arrival at Cornell, foreign students are urged to report to the International Student Office, 200 Barnes Hall.

Reading-Study Center

The Reading-Study Center offers all students the opportunity to acquire and

improve the reading and study skills that are essential for academic success. Each semester, numerous sections of three- and seven-week noncredit courses in reading and study skills are offered. The staff of the Center also assists individual students with their specific academic problems.

The content of the lectures includes the following general areas: organization and effective use of time; reading textbooks and supplementary materials with efficiency and with improved comprehension; making notations and taking notes on reading assignments; recording and remembering lecture notes; preparing for and taking examinations; and improving the research skills required for papers and reports.

Instruction in the techniques of speed reading is also offered at the Center. Although this skill has extremely limited application when reading academic assignments, some students may wish to acquire it for the reading of newspapers, magazines, and light fiction.

Career, Summer Plans, and Placement Center

The Career, Summer Plans, and Placement Center, 14 East Avenue, serves as an information center regarding careers, employment opportunities, teacher placement, and fellowships. It is also the center for information about summer opportunities, which include work, study, travel, and service projects. It serves as a clearing house for jobs in business, industry, and teaching. Applications for the Graduate Record Examination, law and business board examinations, among others, are on file there. Arrangements are made through the Career Center for recruiters from graduate schools and employing organizations to visit the campus every year. The students and faculty may keep up to date with the Center's activities by registering to receive its monthly newsletter. An alumni placement service is also operated at the Center.

Subjects of Study

The following is a list of subjects for those students who do not know which *Announcements* to refer to. The subject of study appears at the left of the column, in roman type, followed in each case by the appropriate *Announcement* (or *Announcements*) in italics. A complete list of the *Announcements* may be found at the back of this publication.

The names of the *Announcements* of the University are abbreviated as follows:

Agriculture and Life Sciences*	<i>Ag</i>
Architecture, Art, and Planning	<i>Arch</i>
Arts and Sciences	<i>Arts</i>
Asian Studies	<i>Asian</i>
Business and Public Administration	<i>B&PA</i>
Education	<i>Ed</i>
Engineering	<i>Engin</i>
Human Ecology*	<i>Human Ec</i>
Hotel Administration	<i>Hotel</i>
Industrial and Labor Relations*	<i>ILR</i>
Law	<i>Law</i>
Medical	<i>Med</i>
Graduate Medical Sciences	<i>Grad Med Sci</i>
Nursing	<i>Nurs</i>
Officer Education	<i>Officer</i>
Graduate School of Nutrition	<i>GSN</i>
Veterinary*	<i>Vet</i>

Those students interested in graduate studies may send for the *Announcement of the Graduate School* (see List of *Announcements*).

Africana Studies and Research Center courses information may be obtained from the Center, 310 Triphammer Road, Ithaca, New York 14850.

Accounting	<i>Ag, B&PA, Engin, Hotel</i>
Accounting (industrial and public)	<i>B&PA</i>
Acting	<i>Arts</i>
Administration and law	<i>B&PA, Hotel, ILR, Law</i>
Administration, hotel	<i>Hotel</i>
Administrative process	<i>B&PA</i>
Advertising	<i>Hotel</i>
Aerial photographic studies	<i>Engin</i>
Aerodynamics	<i>Engin</i>
Aerospace engineering	<i>Engin</i>
Aerospace studies (AFROTC)	<i>Officer</i>
Africana studies	<i>See address this page</i>
AFROTC	<i>Officer</i>
Agricultural and occupational education	<i>Ag, Arts, Ed</i>
Agricultural broadcasting	<i>Ag</i>
Agricultural business management	<i>Ag, B&PA</i>
Agricultural economics	<i>Ag</i>
Agricultural engineering	<i>Ag, Engin</i>
Agricultural engineering technology	<i>Ag, Engin</i>
Agricultural extension	<i>Ag</i>
Agricultural management	<i>B&PA</i>
Agricultural marketing	<i>Ag</i>
Agricultural missionary service	<i>Ag</i>
Agricultural policy and management	<i>Ag, B&PA</i>
Agricultural science	<i>Ag</i>
Agricultural structures	<i>Ag, Engin</i>
Agricultural technology	<i>Ag</i>
Agricultural waste management	<i>Ag, Engin</i>
Agriculture, general	<i>Ag</i>
Agriculture, international	<i>Ag</i>
Agronomy	<i>Ag</i>
Air pollution control	<i>Engin</i>
Air science	<i>Officer</i>
American studies	<i>Arts, ILR</i>
Analysis of data	<i>Arts, B&PA, ILR</i>
Anatomy	<i>Arts, Med, Vet</i>
Anesthesiology	<i>Med</i>
Animal genetics	<i>Ag</i>

*A unit of the State University of New York

62 Subjects of Study

- Animal nutrition *Ag, GSN*
 Animal pathology *Vet*
 Animal physiology and anatomy *Ag, Arts, Vet*
 Animal science *Ag*
 Animal virology *Vet*
 Anthropology *Arts*
 Apiculture *Ag*
 Apparel design (marketing) *Human Ec*
 Applied mathematics *Arts, Engin*
 Applied physics *Arts, Engin*
 Applied statistics and probability *B&PA, Engin, ILR*
 Arbitration *ILR*
 Archaeology *Arts*
 Architectural history *Arch, Arts*
 Architectural sciences *Arch*
 Architecture *Arch*
 Armed Forces Programs *Nurs, Officer*
 AROTC *Officer*
 Art (history of) *Arts*
 Arts (practice of fine arts) *Arch, Arts*
 Asian studies *Arts, Asian*
 Astronomy and space sciences *Arts, Engin*
 Atmospheric science *Ag*
- Bacteriology *Ag, Arts, Med, Vet*
 Banking and finance *Ag, Arts, B&PA*
 Beekeeping *Ag*
 Biochemical engineering *Engin*
 Biochemical nutrition *GSN*
 Biochemistry *Ag, Arts, Grad Med Sci, GSN, Med, Vet*
 Bioelectronics *Engin*
 Bioengineering *Ag, Engin*
 Biological sciences *Ag, Arts, GSN, Nurs*
 Biological structure and cell biology *Grad Med Sci*
 Biology *Grad Med Sci*
 Biomathematics *Engin, Grad Med Sci*
 Biomechanical design *Engin*
 Biomedical engineering *Engin*
 Biometry *Ag*
 Bionics *Engin*
 Biophysics *Engin, Grad Med Sci, Med*
 Black studies *See address above*
 Botany *Ag, Arts*
 Business administration *B&PA, Hotel*
 Business law *Ag, B&PA, Hotel*
 Business management *Ag, B&PA, Hotel*
- Chemical engineering *Engin*
 Chemical microscopy *Engin*
 Chemical processes *Engin*
 Chemistry *Arts, Hotel*
 Chemistry, textile *Human Ec*
 Child development *Human Ec*
 Chinese *Arts, Asian*
- Cinema *Arts*
 City management *B&PA*
 City and regional planning *Arch*
 Civil and environmental engineering *Engin*
 Civil engineering *Engin*
 Classics *Arts*
 Clinical nutrition *GSN*
 Clothing *Human Ec*
 Club management *Hotel*
 Collective bargaining *ILR*
 Combustion and air pollution *Engin*
 Communication arts *Ag, Hotel*
 Community health *Nurs*
 Community nutrition *Human Ec*
 Community service education *Ag, Arts, Human Ec, ILR*
 Comparative literature *Arts*
 Computation, theory of *Arts, Engin*
 Computers and data processing *B&PA, Engin, Hotel*
 Computer science *Arts, B&PA, Engin*
 Conservation *Ag*
 Consumer economics and public policy *Human Ec*
 Consumer education *Human Ec*
 Consumer product design *Human Ec*
 Controls engineering *Engin*
 Control theory *Engin*
 Cooperative Extension *Ag*
 Crop science *Ag*
 Curriculum and instruction *Ag, Arts, Ed, Human Ec*
- Dairy production *Ag*
 Dance *Arts*
 Data processing *Engin, Hotel*
 Design *Arch, Hotel, Human Ec*
 Design and environmental analysis *Human Ec*
 Design, apparel *Human Ec*
 Design, architectural *Human Ec*
 Design, engineering *Engin*
 Developmental psychology *Human Ec*
 Dietetics *Human Ec*
 Directing (theatre arts) *Arts*
 Drama *Arts*
 Drawing *Ag, Arch, Human Ec*
 Drawing, mechanical *Ag*
- Early childhood education *Ag, Arts, Human Ec*
 Ecology, evolution, and systematics *Ag, Arts*
 Economic and social statistics *ILR*
 Economic entomology *Ag*
 Economics *Ag, Arts, B&PA, GSN, Hotel, Human Ec, ILR*
 Economics and finance *B&PA, Hotel*

Economics and policy *Ag, Arts, B&PA, ILR*
 Education *Ag, Arts, Ed, Human Ec*
 Educational administration and supervision
Ag, Arts, Ed, Human Ec, ILR
 Educational psychology and measurement
Ag, Arts, Ed, ILR
 Educational research and methodology *Ed*
 Electrical engineering *Engin*
 Electrical power and processing *Ag, Engin*
 Electromagnetic theory and microwave
 devices *Engin*
 Embryology *Arts, Vet*
 Energy conversion *Engin*
 Engineering *Engin*
 Engineering cooperative program *Engin*
 Engineering mechanics *Engin*
 Engineering physics *Engin*
 English *Arts*
 Entomology *Ag*
 Environmental analysis, human and social
 factors *Human Ec*
 Environmental analysis, materials and
 process *Human Ec*
 Environmental biology *Ag*
 Environmental engineering *Engin*
 Environmental systems engineering *Engin*
 Epidemiology *Vet*
 Extension, and continuing education *Ag,*
Arts, Ed, Human Ec, ILR

Family decision making *Human Ec*
 Family relationships *Human Ec*
 Family resource management *Human Ec*
 Family sociology *Human Ec*
 Family studies *Human Ec*
 Farm finance *Ag*
 Farm management *Ag*
 Federal administration *B&PA*
 Female studies *Ag, Arts, ILR*
 Field crops *Ag*
 Finance *B&PA*
 Finance, business and public *Ag, Arts,*
B&PA, Hotel
 Financial management *Hotel*
 Fine arts (practice of) *Arch*
 Fishery biology *Ag*
 Fishery science *Ag*
 Floriculture *Ag*
 Floriculture, commercial *Ag*
 Fluid mechanics *Engin*
 Food and nutrition *Human Ec*
 Food distribution *Ag, B&PA*
 Food facilities planning *Hotel*
 Food industry management *Ag, Hotel*
 Food science *Ag, Hotel, Human Ec*
 Food service management *Hotel, Human Ec*
 Food testing and research *Hotel, Human Ec*
 Foreign agriculture service *Ag*
 Forestry *Ag*

French *Arts*
 Fruit production *Ag*

Gasdynamics *Engin*
 General education *Ag, Arts, Ed, Human Ec*
 General public administration *B&PA*
 Genetics *Ag, Arts, Grad Med Sci, Med*
 Genetics and development *Ag, Arts*
 Geodetic and photogrammetric engineering
Engin
 Geography *Arts*
 Geological sciences *Arts, Engin*
 Geomorphology *Arts, Engin*
 Geophysics *Arts, Engin*
 Geotechnical engineering *Engin*
 Geotectonics *Arts, Engin*
 German *Arts*
 Government *Arts*
 Graphic arts *Arch*
 Greek *Arts*
 Greek civilization *Arts*
 Greenhouse crops production *Ag*
 Guidance and personnel administration
Ag, Arts, Ed, ILR

Health education *Ag, Arts, Human Ec, Nurs*
 Heat transfer *Engin*
 Hebrew *Arts*
 High-energy plasmas *Engin*
 Hindi *Arts*
 Histology *Arts, Vet*
 History *Arts, ILR*
 History of architecture *Arch, Arts*
 History of art *Arts*
 History of urban development *Arch*
 History, philosophy, and sociology of
 education *Ag, Arts, Ed*
 Home economics education *Ag, Arts, Ed,*
Human Ec
 Horticulture *Ag*
 Hospital and health administration *B&PA,*
ILR
 Hospital dietetics *Human Ec*
 Hospital food service administration *Hotel*
 Hotel administration *Hotel*
 Hotel and restaurant design *Hotel*
 Household economics *Human Ec*
 Household equipment *Human Ec*
 Household management *Human Ec*
 Housing *Arch*
 Housing, economic and social factors
Human Ec
 Housing design *Human Ec*
 Human behavioral development *Nurs*
 Human biology *Arts*
 Human development and family studies
Human Ec
 Human ecology *Human Ec*

64 Subjects of Study

Human growth and development, theories of *Nurs*

Human nutrition *Human Ec, GSN*

Human nutrition and food *Human Ec*

Hydraulics and hydrology *Engin*

Immunology *Ag, Vet*

Independent majors *Arts*

Indonesian *Arts*

Industrial engineering *Engin*

Industrial and labor relations *ILR*

Information and decision theory *B&PA, Engin*

Information processing *Arts, B&PA, Engin*

Insect morphology *Ag*

Insect physiology *Ag*

Insect taxonomy *Ag*

Insect toxicology *Ag*

Institution management *Hotel, Human Ec*

Intaglio printing *Arch*

Interior design *Hotel, Human Ec*

International agriculture *Ag*

International and comparative labor relations *ILR*

International and foreign operations *B&PA*

International nutrition *GSN*

International studies *Ag, Arts, B&PA,*

GSN, ILR, Law

Italian *Arts*

Japanese *Arts, Asian*

Jewish studies *Arts*

Journalism (see Communication arts)

Kindergarten *Ag, Arts, Human Ec*

Kinetics and transport processes *Engin*

Laboratory animal medicine *Vet*

Labor economics *ILR*

Labor relations (see Industrial and labor relations)

Labor union history and administration *ILR*

Landscape architecture *Ag*

Landscape horticulture *Ag*

Landscape service *Ag*

Languages, modern and ancient *Arts*

Latin *Arts*

Latin American studies *Ag, Arts*

Law *Hotel, ILR, Law*

Law of business *B&PA, Hotel*

Linguistics *Arts*

Literature *Arts*

Lithography *Arch*

Livestock production *Ag*

Lubrication *Engin*

Magnetofluidynamics *Engin*

Managerial economics *B&PA, Hotel*

Manpower studies *Hotel, ILR*

Marine geology *Arts, Engin*

Marketing *Ag, B&PA, Hotel*

Marketing, apparel and textile *Human Ec*

Materials and metallurgical engineering *Engin*

Materials engineering *Engin*

Materials processing *Engin*

Materials science and engineering *Engin*

Maternal child nursing *Nurs*

Mathematics *Arts*

Mathematics, applied *Arts, Engin*

Meat science *Ag, Hotel*

Mechanical drawing *Ag, Engin*

Mechanical engineering *Engin*

Mechanical systems and design *Engin*

Mechanics of materials *Engin, Hotel*

Mechanics, theoretical and applied *Engin*

Mediation *ILR*

Medical sciences, graduate *Grad Med Sci, Med*

Medical surgical nursing *Nurs*

Medicine *Med*

Medicine and surgery *Med*

Medicine, veterinary *Vet*

Medieval studies *Arts*

Metallurgical engineering *Engin*

Meteorology *Ag*

Microbiology *Ag, Arts, Grad Med Sci, Med*

Microscopic anatomy *Arts, Vet*

Microwave solid state electronics *Engin*

Military science (AROTC) *Officer*

Mineral deposits *Arts, Engin*

Music *Arts*

Natural resources *Ag*

Natural resources conservation *Ag*

Naval science (NROTC) *Officer*

Network and system design *Engin*

Neurobiology and behavior *Ag, Arts, Grad Med Sci*

Neurology *Arts, Med, Vet*

Neuroscience *Grad Med Sci*

NROTC *Officer*

Nuclear physics *Arts, Engin*

Nuclear process engineering *Engin*

Nuclear science and engineering *Engin*

Numerical analysis *Arts, Engin*

Nursery crops production *Ag*

Nursery management *Ag*

Nursery school education *Ag, Arts, Human Ec*

Nursing (see also Prenursing) *Nurs*

Nutrition (grad. studies) *GSN, Human Ec*

Nutrition and behavior *GSN, Human Ec*

Nutrition, animal *Ag, GSN, Vet*

Nutrition, food and *Hotel, Human Ec*

Nutrition, human *GSN, Human Ec*

Obstetrics *Vet*

Obstetrics and gynecology *Med*

65 Subjects of Study

Operations research *Engin*
 Ophthalmology *Med*
 Organizational behavior *Ag, Arts, B&PA, Human Ec, ILR*
 Ornamental horticulture *Ag*
 Ornithology *Ag*
 Otorhinolaryngology *Med*
 Outdoor recreation *Ag*
 Painting *Ag, Arch, Arts*
 Paleontology *Arts, Engin*
 Parasitology *Vet*
 Pathogenic bacteriology *Vet*
 Pathology *Grad Med Sci, Med*
 Pediatrics *Med*
 Personnel administration *Hotel, ILR*
 Personnel management *B&PA, Ed, Hotel, ILR*
 Petrology *Arts, Engin*
 Pharmacology *Grad Med Sci, Med, Vet*
 Philosophy *Arts*
 Photogrammetry *Engin*
 Photography *Arch*
 Physical biology *Vet*
 Physical education*
 Physical geography *Arts, Engin*
 Physics *Arts, Engin*
 Physics, applied *Arts, Engin*
 Physiology *Ag, Arts, Grad Med Sci, Med, Vet*
 Physiology and biophysics *Med, Grad Med Sci*
 Planning institutions *Arch*
 Plant breeding *Ag*
 Plant materials and propagation *Ag*
 Plant pathology *Ag*
 Plasma physics *Arts, Engin*
 Playwriting *Arts*
 Policy planning and regional analysis *Arch*
 Political theory and methodology *Arts*
 Polymer science and materials engineering *Engin*
 Pomology *Ag*
 Population studies *Arts*
 Poultry breeding *Ag*
 Poultry management *Ag*
 Poultry science *Ag*
 Power and machinery *Ag, Engin*
 Power generation *Engin*
 Predental training *Arts*
 Prelaw training *Arts, ILR*

Premedical training *Arts*
 Prenursing training *Ag, Arts, Human Ec*
 Preveterinary training *Ag, Arts*
 Printmaking *Arch*
 Production *B&PA*
 Properties management *Hotel*
 Psychiatric nursing *Nurs*
 Psychiatry *Med*
 Psychology *Ag, Arts, Hotel, Human Ec, ILR, Med, Nurs*
 Public administration and finance *Ag, B&PA*
 Public finance *Arts, B&PA*
 Public health *B&PA, GSN, Med, Nurs*
 Public management *B&PA*
 Public policy *B&PA, Human Ec*
 Public relations *Ag, Hotel*
 Public speaking *Ag, Arts*

Quantitative analysis for managerial decisions and of economic data *B&PA*
 Quantum and statistical mechanics *Arts, Engin*
 Quantum electronics *Arts, Engin*

Radiation biology *Vet*
 Radio astronomy *Arts, Engin*
 Radiology *Grad Med Sci, Med, Vet*
 Radiophysics *Arts, Engin*
 Radiophysics and geophysical plasmas *Engin*
 Radio-television *Ag*
 Recreation *Ag*
 Regional planning *Arch*
 Resource analysis and planning *Ag*
 Resource economics *Ag*
 Restaurant administration *Hotel*
 Romance languages *Arts*
 Roman civilization *Arts*
 Rural sociology *Ag*
 Russian *Arts*

Sanitary engineering *Engin*
 Science and environmental education *Ag, Arts, Ed*
 Sculpture *Arch*
 Secondary education *Ag, Arts, Ed, Human Ec*
 Secretarial studies *Hotel*
 Seed technology *Ag*
 Seismology *Arts, Engin*
 Semitic studies *Arts*
 Silk-screen printing *Arch*
 Slavic studies *Arts*
 Social psychology *Arts, ILR*
 Social relations *Arts, ILR*
 Social science *Nurs*
 Social security *ILR*

*The requirements in physical education are described in earlier pages of this *Announcement*; details of the courses offered are given in publications made available to students by the Department of Physical Education. The courses do *not* lead to a physical education degree.

Social security and protective labor
 legislation *ILR*
 Social service *Ag, Human Ec*
 Sociology *Arts, Human Ec, ILR, Nurs*
 Sociology, rural *Ag*
 Soil and water engineering *Ag, Engin*
 Soil and water management *Ag, Engin*
 Soil conservation *Ag*
 Soil science *Ag*
 Solid mechanics *Engin*
 Solid state physics *Arts, Engin*
 Southeast Asia *Arts, Asian*
 Space mechanics *Engin*
 Space physics *Arts, Engin*
 Space planning, interior *Human Ec*
 Space research *Arts, Engin*
 Spanish *Arts*
 Statistics *Ag, Arts, B&PA, Engin, Hotel,*
ILR
 Structural engineering *Engin*
 Structural mechanics *Engin*
 Structures *Arch, Hotel*
 Structures and environment *Ag, Engin*
 Surgery *Med, Vet*
 Systems analysis and design *Engin*
 Systems design *Engin*

 Teaching (see Education)
 Television-radio *Ag*
 Textile science and design *Human Ec*

Thai *Arts*
 Theatre arts *Arts*
 Theatre history *Arts*
 Theoretical and applied mechanics *Engin*
 Thermal engineering *Engin*
 Toxicology *Ag, Vet*
 Tourism *Hotel*
 Transportation *B&PA, Engin*
 Transportation and public utilities *B&PA*
 Transportation engineering *Engin*
 Turfgrass management *Ag*

 Urban design *Arch*
 Urban development history *Arch*
 Urban planning and development *Arch*
 Urban studies *Arts*

 Vegetable crops *Ag*
 Vehicle dynamics *Engin*
 Veterinary medicine *Vet*
 Vietnamese *Arts*
 Virology *Ag, Vet*
 Visiting nurse *Nurs*

 Water resources *Engin*
 Water resources systems *Engin*
 Wildlife science *Ag*
 Workmen's compensation *ILR*

 Zoology *Ag, Arts*

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